ISSUED EVERY WEDNESDAY

ESTABLISHED IN SEPTEMBER 1914 AS "WEEKLY DRUG MARKETS"

D. O. HAYNES & Co. Publishers No. 3 PARK PLACE NEW YORK U.S. A.

SUBSCRIPTION:-U. S., CUBA AND MEXICO, \$4.00; CANADA, \$4.50; FOREIGN, \$5.00 A YEAR IN ADVANCE

NEW YORK, FEBRUARY 20, 1918

No. 24

HERMAN & HERMAN, Inc. 6 CHURCH STREET NEW YORK

Manufacturers and Exporters

Colors for the Dyer rer Intermediates for the Color Maker H Acid always on hand

Pharmaceuticals for the Drug Trade Synthetic Oils for the Perfume, Soap, Extract and Essence Trade The More Difficult It Is To Procure, The More Likely We Are To Have It

Our Research Laboratories Are At The Disposal Of Our Friends We Solicit Inquiries On Every Variety Of Coal Tar Product

YELLOW PRUSSIATE OF POTASH SALTPETER **RED PRUSSIATE OF POTASH** POTASSIUM CHLORATE BICARBONATE OF POTASH RED and YELLOW PHOSPHORUS CARBONATE OF POTASH HIRATHIOL

TAKAMINE LABORATORY, Inc. 120 Broadway New York City Factory and Laboratory: Clifton, N. J.

Exporters and Importers of Japanese Chemicals PHONE RECTOR 7885

NAPHTHALENE

Balls and Crystals

U. S. P. PHENOL

The Chatfield Mfg. Co., Cincinnati, O., U. S. A.

Refined Saltpetre Refined Nitrate of Soda

KNOWLES-BRADLEY CO.

Manufacturers

88 WALL STREET

NEW YORK

MERCK & CO

Chemicals

NEW YORK Montreal

Works at Rahway, N. J.

Charlotte Drug Co.

Drug Merchants

AMERICAN—CRUDE DRUGS—FOREIGN

Correspondence Invited

CHARLOTTE

MICHIGAN

We offer for prompt or future shipment

Paradichlorbenzol Dinitrochlorbenzol

Orthodichlorbenzol Paranitrochlorbenzol Orthonitrochlorbenzol

Paratoluolsulphochlorides

Monsanto Chemical Works

ST. LOUIS

NEW YORK BRANCH PLATT and PEARL STS.

California Magnesite - All Kinds Infusorial Earth Mica Phosphate of Soda - Copper Sulphate

Sulphuric - Muriatic 68 Maiden Lane, New York PHONE JOHN 6346

Phosphoric - Nitric (EDWARD P. MEEKER

Price List of the Era Publications



Drug and Chemical Markets The purpose of this journal is to supply first-hand buyers with thor-oughly reliable Market Reports, with current prices on Drugs and Chemicals. Heavy Chemicals and Dyestuffs. It also prints each week 2 complete lists (1,600 items) of current Jobbers' Prices in New York

on Drugs and Chemicals. SUBSCRIPTION RATES-U. S., Cuba and Mexico, \$4.00 year; Canada \$4.50, and Foreign Countries \$5.00 a year.



The Pharmaceutical Era (Established 1887)

A monthly pharmaceutical journal for druggists, pharmacists and students, cov-ering all the important branches of phar-macy and its allied subjects.

Some characteristics of the ERA are its independent editorial policy and its allaround completeness, such as the modern druggist requires.

SUBSCRIPTION RATES—U. S., Cuba and Mexico \$1.00; Canada \$1.50 and to Foreign Countries \$2.00 a year.



The Soda Fountain (Established 1902)

The only publication with a national circulation devoted exclusively to soda

A monthly journal for druggists, confectioners and all owners and operators of soda fountains, recognized as the leading educational publication in this growing industry. A real necessity to every soda man, owner or dispenser.

SUBSCRIPTION RATES—U S., Cuba and Mexico 51.00; Canada \$1.25, and to Foreign Countries \$1.50 a year.



Era Price List-Issued Annually (Established 1895)

A general price list of Drugs and Chemicals and Proprietary goods for the Drug Trade. In 4 Parts: Part 1-Drugs and Chemicals. Part 2-Proprietary Goods; Part 3-Key to Part 2, giving names of Manufacturers; Part 4-Manu-facturers' Price Lists.

PRICE \$1.00 a copy, postpaid. The Pharmaceutical Era and Era Price List for \$1.50 a Year in U. S., Cuba and Mexico; Canada \$2.00; Foreign \$2.50.



Era Dose Book

Full of "meat" from cover to cover. be on every prescription counter. 20 Dose and Reference Tables with Appendix of Alcohol and Narcotic percentages in U. S. P. and N. F.

Price 50c a copy, postpaid.

ERA KEY to the U. S. P. and the N. F. This book (vest pocket size) supplies physicians, pharmaeists and students with a practical KEY to the contents of the new U. S. Pharmacopoeia and the new National Formulary, giving official names, synonyms, preparations, therapeutic properties, doses, etc.

Price. 50 cents a copy, postpaid.

The Era Poison Register (New Edition, Dec., 1915)
For druggists' legal record of poison sales with digest of the poison laws in all the States. This new edition most complete; 152 pages, 8½x11 in., with spaces for 1500 entries; full bound, cloth sides, with leather back and corners.

Price, \$1.00 a copy, postpaid.

Era Cost Stock and Inventory Book Special ruled book, thumb indexed, for keeping costs, quotations and stocks of Drugs and Chemicals. Does not contain Pharmaceuticals, Sundries or Proprietary Medicines. Special ruled naces for Quotations, Addresses,
Pull Cloth, leather back and corners, \$2.50 a copy



A most valuable collection of unofficial formulas for Manufacturers, Physicians, Veterinary Surgeons, Hospitals and for Household use.

This edition revised by the late Wm. C. Alpers, Sc. D., President of the Amer. Phar. Assn. and by E. J. Kennedy, Ph. C., Editor of The Pharmaceutical Era.
Full cloth, 527 pages in 9 Divisions and 146 classes. Price \$5.00 a copy, postpaid.

The Dispenser's Formulary or Soda Water Guide

Contains 2,000 formulas for the soda foun-tain, for making Ice Cream, Ices, etc., also valuable Luncheonette department. By far the best and most complete formula book published for fountain dispensers. Every fountain man should have this valuable book. New and Enlarged Edition, \$1.50 a copy postpaid



0



FORMULAPY

Era Druggists Directory

The standard directory of the drug trade. Wholesale Druggists, Retail Druggists and Manufacturers in separate lists all arranged geographically. 18th Edition for 1916.

Price \$5.00 a copy postpaid.

The Era Course in Pharmacy



A complete correspondence course covering in 10 Parts all the required branches of Pharmacy, such as Inorganic and Organic Chemistry, Botany, Materia Medica, Pharmacognosy, etc. Founded in 1898—over 9.000 students in all parts of the world. Complete Prospectus free on application. The ERA Course complete, including diploma to graduates, only \$10.00.

Address Director, ERA Course in Pharmacy,

3 Park Place, New York.

The Era Opium and Coca Registers

These registers are designed for Druggists and Physicians to omply with the Harrison Narcotic Law. There are three These registers are designed for Druggists and Physicians to comply with the Harrison Narcotic Law. There are three styles as follows:
No. 1-For Druggists Prescription Record.
No. 2-For Physicians, Dentists, etc.
No. 3-For Record of Sales and Purchases.
All three books in uniform size (8 x 11 in.) full cloth, leather backs and corners-152 Ruled Pages.

Price \$1.00 each, postpaid. ORDER BY NUMBER.

THE ERA

Era Narcotic List

A list of official and unofficial Drugs, Chemieals and preparations affected by the Federal

Vest Pocket Size-25c a copy, postpaid.



Money Making Hints

For Druggists and Confectioners

It is full of original trade building suggestions for assisting druggists and confectioners in increasing their fountain and confectionery trade, window displays, etc.

Full paper Covers, \$1.00 a copy, postpaid.

Era Binders

Hold copies of Drug and Chemical Mar-kets, The Pharma-ceutical Era or The Soda Fountain for one year. This binder preserves your jour-nals for permanent reference.
Price 75c each, post-paid.



D.O. HAYNES & CO., Publishers, No. 3 Park Place, NEW YORK

ISSUED EVERY WEDNESDAY

DRUG & CHEMICAL MARKETS

ESTABLISHED IN SEPTEMBER 1914 AS "WEEKLY DRUG MARKETS"

Vol. IV

NEW YORK, FEBRUARY 20, 1918

No. 24

Entered as second-class matter. Dec. 7, 1914 at the Post Office at New York, N. Y., under the Act of March 3, 1879.

DRUG & CHEMICAL MARKETS

PUBLISHED EVERY WEDNESDAY

D. O. HAYNES & Co., Publishers, . New York Publication Office: No. 3 Park Place.

Telephone, 7646, Barclay - Cable Address, "Era, New York."
CHICAGO OFFICE—123 W. Madison St.—'Phone, Central 6941

SUBSCRIPTION RATES

United States, Cuba and Mexico......\$4.00 a year Canada \$4.50 and Foreign \$5.00 a year. Single Copies, 10 cents

ALL SUBSCRIPTIONS PAYABLE IN ADVANCE

REMIT by P. O. or Express Order or New York Draft payable to order of D. O. Haynes & Co. Add 10 cents for collection charges if you send local check.

Published at No. 3 Park Place. Borough of Manhattan. New York, by D. O. Haynes & Co., a corporation; President and treasmer. D. O. Haynes; vice-president, E. J. Kennedy; secretary, D. O. Haynes, Jr. Address of Officers is No. 3 Park Place, New York.



A BINDER FOR THIS JOURNAL

Save Your Copies

Price 75c. net Cash, postpaid.

Table of Contents

EDITORIALS—
Wealth in Waste Products
Supplying Drugs for the Army
Prosperity Through Foreign Trade
Dyestuffs Stand the Test
FEATURES—
Wealth Found in Waste Products
Consumption of Colors in Silk Mills
NEWS—
Madero Brothers In Receivers' Hands
Views of the Drug and Chemical Trade On
Control of Imports and Exports
German Sagacity in Locating Dye Plants 1
Aetna Explosives Co. to Make Colors 1
The Huge Task of Supplying Drugs and Chemi-
cals for Army and Navy 1
British Export Embargo Changes
Price of Zinc Fixed 1
Business Brevities 1
Production of Lime in 1917
London Price Changes 14
How Zinc Dust Is Made
Profits In Quinine 10
New Incorporations
Drug and Chemical Notes 32
MARKET REVIEWS-
Colors and Dyestuffs18-19
Heavy Chemicals
Drugs and Chemicals
PRICE QUOTATIONS—
Drugs, Chemicals, etc., in Original Packages . 24
Soap Makers' Materials
IMPORTS AND EXPORTS 30

Wealth In Waste Products.

The war is teaching Americans that the wealth in waste products is worth going after, and new industries are springing up all over the country. The wonderful development of coal-tar products within a few years has stimulated interest in other lines, particularly in the lumber trade, and the waste products of the mills and the forest litter are now made into paper, or distilled for the alcohol content and for the sugar, acetate and charcoal, which can be economically extracted and turned into profit under the magic wand of the modern chemist.

Cottonseed has been made to yield food values and oils, and the South has established mills to crush the former waste which filled the rivers and was swept out to sea. The peanut, too, is now doubled in value because of the oil extracted. The packing industry is making adrenaline from the suprarenal glands of sheep; still another source of wealth in spite of the declaration of a Chicagoan that his company utilized every part of the sheep but the bleat and all of the pig but the squeal.

It has recently been discovered that the materials used in dry batteries are not entirely consumed and can be recovered in the form of zinc and manganese salts, and a manufacturer figures that he can allow two cents apiece for exhausted batteries and make money. Potash is being recovered from molasses and from cement, tannin from the bark of the western hemlock, oil for making rubber substitutes is taken from fish offal, and the saline deposits of the western plains are made to yield magnesium sulphate and sal soda.

Supplying Drugs for the Army.

The caution displayed by the Government in buying drug supplies for the army, undoubtedly prevented panic prices in the market and shut out the profiteers, but the credit for the systematic methods employed must be given to the manufacturers of chemicals and pharmaceuticals. It was in April of last year that the manufacturers devised means for handling the Government business to suit the peculiar conditions surrounding production in the different groups.

It was found that the Government lists called for 100,000 pounds of quinine which it would be impossible to supply. The proposals were prepared on a basis of supplies for one year for an army of 1,000,000 men. The list called for 20,000 pounds of phenacetin which was so scarce that it was hardly obtainable even in small quantities. The committee

of manufacturers suggested the substitution of acetanilid, and in this case and in many other perplexing situations was able to bring the estimates within the realm of commercial possibility. More than six million containers were called for. Owing to the labor conditions and the restricted capacity of factories making bottles and boxes, it was realized that no one would bid on the quantities indicated.

It was recommended that the amounts be cut to 25 per cent. of the Government estimates, and this suggestion was accepted, and the supplies limited to the quantity needed for one year for 250,000 men.

Calls for bids are accordingly made every three months for supplies for 1,000,000 men. It was also decided that prevailing trade customs in sizes and styles of containers, weights and measures and other details should be followed. The result was gratifying. Competitive bidding brought lower prices than was expected, due in part to the fact that some manufacturers had raw materials on hand which were purchased before the market got into the hands of speculators. Many manufacturers, actuated by patriotic motives, have shaded their bids since the first contracts were awarded, having found it possible to do so after filling one order.

Items in the list prepared for pharmaceutical and chemical manufacturers are divided into the following groups: Chemicals, proprietary articles, whole and powdered drugs and miscellaneous crude materials, pharmaceutical products, essential oils including menthol and thymol. A list of representative houses manufacturing the various commodities was furnished the Government.

The Executive Committee representing the manufacturers also worked many days preparing a list of equivalents for drugs which had increased in price so much as to make their use prohibitive. In some cases the increase in cost above normal was 1,000 per cent. The manufacturers of drugs and chemicals seem to be doing their bit.

Prosperity Through Foreign Trade

After-war problems are to be discussed at the Cincinnati meeting of the National Foreign Trade Council in April. Men who have made a success of foreign business as well as men who have just begun to accept orders from the neutral countries which are appealing to American manufacturers for goods will be in attendance. The best ways to maintain the overseas commerce which has been practically thrust upon the United States will be considered.

The first point under discussion will be the part that foreign trade must assume in winning the war. The necessity for developing the country's resources, the building of a merchant marine, the organization of the railroads, the textile and chemical industries, and lumber and steel production, and the methods of financing all these projects with a view to expanding exports are subjects on the programme. Foreign trade after the war will

then be taken up, and manufacturers and exporters will be asked their views on how to hold the gains, how to meet the after-war conditions, how to eliminate waste and conserve our resources. Other topics are the problems of obtaining raw materials, and the best methods of co-operating to obtain trade in countries which have heretofore bought their supplies in Europe.

The broad scope of the convention is shown by the world-wide problems to be discussed, including the extension of the overseas trade across the Pacific. In the so-called group sections, in which special subjects will be considered, foreign credits and banking, education for foreign trade and information for beginners are among the practical features scheduled. It will be a working convention and even the banquet will be made a part of the "work" programme by introducing speakers who will talk on subjects of importance to-foreign traders. The slogan of the Council is "Greater Prosperity through Greater Foreign Trade."

Sound Foundations Wanted

There are possibilities of currency inflation in the war finance corporation bill which do not appeal to the conservative manufacturer, especially to the chemical and dyestuff manufacturer, for if we are to continue to develop these industries in the postwar period, we need the soundest and firmest financial foundations upon which to build.

The bill as it stands provides for notes "to mature not less than one year nor more than five years" from the date of their issue, and for their public sale at prices fixed by the corporation's management. So far these notes differ little in substance from the ordinary government or private short term obligations. But, unfortunately the bill does not stop here. It further provides that "any Federal Reserve bank acquiring by purchase or rediscount such paper secured by the notes or obligations of the War Finance Corporation may, with the approval of the Federal Reserve Board, use such paper so acquired for any purpose for which it is authorized to use paper secured by bonds or notes of the United States."

With only the approval of the Federal Reserve Board to be won, it is possible to transform these short term obligations into currency. There are dangerous possibilities of inflation lurking in these provisions, possibilities that should never be allowed to become probabilities by the passage of the bill.

Dyestuffs Stand the Test

American dyestuffs manufacturers are to be congratulated on the record they have made in supplying colors for Government use in dyeing uniforms and for color printing. The statement was made recently at a gathering of textile and dyestuff manufacturers that "out of the millions of yards of cloth that have been delivered since American dyestuffs have been used, not a yard has been returned on account of any defect in dyestuffs."

Wealth Found in Waste Products

Savings Effected in the Packing Industry, In Lumber, Cotton, Beet Sugar and Gas Manufacture

By DR. H. E. HOWE, of Arthur E. Little, Inc.

ASTE is so common in most industries that those responsible for it come to regard it as essential, and like many in the lumber industry, allow the sawdust to blind them. It sometimes happens that unpreventable waste does not occur concentrated in sufficient quantity to make its economic utilization as raw material possible, but for those who doubt the gospel of research, and are inclined to be sceptical concerning its potency as applied to waste problems, a few examples may prove convincing.

Perhaps no other industry is so great an offender as is lumbering. In many instances fully 65% of the tree remains unused, but this forest litter and mill waste in excess of fuel requirements is attractive as a raw material for several industries. One of the Southern lumber companies has just completed a paper mill costing one and one-half million dollars, it having been demonstrated that kraft and other varieties of papers may be made from their wood waste at a profit which in normal times equals or exceeds that from their lumbering operations.

There are two plants in America making ethyl or grain alcohol from wood waste by a process which hydrolyzes a part of the cellulose to soluble and fermentable sugars. These are extracted, fermented, and the alcohol then distilled off to be further purified. Notwithstanding many technical difficulties and the fact that the process has had to withstand a long period of experimental work, these plants show promise in normal times, and the recent high alcohol prices have made their operation attractive.

Closely related is the process for producing alcohol of a high quality from waste sulphite pulp liquors, in which are to be found the gums and other fermentable materials of the wood. Five million gallons of ethyl alcohol were made from these waste liquors by fermentation processes during the last year in Sweden, and one plant is operating this process in the United States.

The distillation of waste wood has recently been made possible through the perfection of a retort, into which waste may be fed continuously and automatically, the charcoal being discharged in the same manner. In this device the explosion hazard which has defeated previous projects has been eliminated because of the possibility of charging and discharging the retort without the admission of air. The alcohol, acetate, charcoal and other products are of high quality, and the method will make it possible to turn vast quantities of waste into profit.

D

Some time ago it was stated that chemistry had added more than eleven dollars to the value of each bale of cotton raised in the South, and this, through the new industries built upon cottonseed products. These products are daily becoming of more value through such processes as the hydrogenation of oils and superior refining methods as well as the natural increase in the food values represented, so that the eleven dollars per bale is much too low a valuation to place upon the achievements of chemistry in handling a waste which at one time was such a nuisance that certain southern states passed laws to prevent the clogging of the streams due to such quantities of cotton-seed being dumped into them.

There are two materials generally wasted, or available in excess of present requirements, which new electrochemical methods may turn into profit. These are hydrogen and methane which is "dry" natural gas. By subjecting the heavy hydrocarbon from petroleum stills to a suitable electric current in the presence of these gases, the organic molecules are rearranged and gasoline produced with a power cost as low as 4-10 cent per grain of product.

Of timely interest is the fact that trinitrotoluol known as "T. N. T." may properly be considered a waste product which has momentarily become of great importance, more so than the product which originally was the principal one. In the nitration of toluol two mononitrotoluols were produced and while one of these was suitable as a dye intermediate, the other was a useless product some years ago, and scientists expended much time and money in an effort to reduce its production and find ways to profitably utilize the great stocks which were continually being produced. Suddenly this activity ceased without announcements as to reason and we have had to wait until the outbreak of the war to find the use to which the mono-nitrotoluol has been put. The early successes of German

arms furnishes us with the answer.

A classical example of waste utilization is furnished by the Le Blanc Soda Process. Formerly the hydrochloric acid produced as a by-product was turned into sewers and had it not been for the uses found for hydrochloric acid the Le Blanc Process would long sirce have been entirely discarded in favor of the Solvay process.

The packing industry furnishes many examples of profitable waste utilization, and the statement has frequently been made with authority that without the profits from these wastes the edible portions of food animals would have to be sold at a considerable advance. The extent to which packing house wastes have been employed is illustrated in the manufacture of adrenaline, in the production of one pound of which the suprarenal glands of thirty thousand sheep are required.

Recent work has shown that a large part of the zinc and pyralucite in dry batteries is not consumed during the life of the battery, and that this material can be economically recovered in the form of zinc and manganese salts, at points where large numbers of the familiar "No. 6" batteries can be obtained within reasonable freight haul. It has been estimated that with present transportation charges an allowance of 2c can be made for exhausted batteries within a radius of three hundred miles of the recovery plant. When it is remembered that in 1914 there were more than seventy-one million dry batteries sold in this country, the probable importance of this waste utilization may be appreciated.

The claims for damage against certain cement plants long ago convinced the operators that they were losing valuable materials up their stacks but there were no efficient ways of recovering these and preventing the nuisance until the Cottrell process was introduced. Now this process has proven itself to be of more than usual value for it opens one way to break the German

potash monopoly. A cement plant in California where the climate makes storage easy, finds it possible to produce and store its cement on the revenue derived from the sale of the potash recovered from the fumes. This would seem an ideal solution of a waste problem for it eliminates the nuisance and resulting law suits while paying for the mill operation at the same time, besides leaving a profit.

Certain beet sugar refineries have installed processes for the recovery of potash from their molasses and other residues which heretofore have not been considered of much value excepting the small portion that went into cattle food and into the production of alcohol.

And so every field of industry has its examples of waste utilization; many plants are making full use of the benefits that may thus be derived. The necessity for making complete use of our natural resources constitutes a national duty for each individual manufacturer to apply research to the end that his own industrial wastes may contribute to our national wealth.

Imports of Chemicals and Dyes

The 1917 activity of the manufacturers of the United States is evidenced by the fact that the value of manufacturing material imported in 1917 was double that of 1915. The value of manufacturing material imported, as shown by a compilation by The National City Bank of New York, in the calendar year 1917, was in round terms \$1,800,000,000 against \$957,000,000 in 1915 and \$874,000,000 in 1914. Manufacturing material formed in 1917, 61% of the total merchandise imported against 54% in 1915 and 49% in 1914.

Another evidence of the activity of the manufacturers of the United States in the year just ended, is found in the fact that the value of manufacturers exported in the calendar year 1917 aggregated nearly \$4,000,000,000 against \$1,791,000,000 in 1915 and \$974,000,000 in 1914.

Among the imports at the port of New York in December last, were the following products admitted free of duty:

Arsenic	66,671	Copper ore	1.273.572
Quebracho	1.319.749	Copper bars, unrefined	
Other tanning extracts	25,367	Corkwood	163,401
Copal	55,294	Dyewoods	34,161
Shellac	61,697	Oils-animal	221,981
Other Gums	26,126	Crude	
Iodine	31.061	Benzine	193,672
Lactarene	166,829	Other refined	300,247
Carbonate of potash	409,926	Oleo stearin	175,323
Nitrate of potash	42,462	Sugar beet seed	
Nitrate of soda		Sulphur ore	113,002
Other chemicals	402,013	Quebracho wood	25,895
Cocoa		Other tanning material	61,884
Coffee	RA 471 606		- 4900 1

The dutiable imports at New York in December

Antimony matte\$236.782	Camphor-refined \$ 77,344
Bristles 359,189	Chicle 96,377
Brushes 105,545	Other gums 104,512
Acids-oxalic 12,599	Opium 40,960
Acids other 55,303	Salts of potash 40,839
Argols 668,348	Vanilla beans 68,848
Colors or dyes 145,792	Other chemicals 593,520
Fusil oil 69,813	Indigo, natural 123,000
The value of the dutiable	imports of all classes was

The value of the dutiable imports of all classes was \$36,201,760; the imports admitted free in December were valued at \$55,309,711.

BIDS ASKED FOR MEDICAL SUPPLIES

The Field Medical Supply Depot of the United States Army, Washington, D. C., has requested bids for 1,000 bottles codeina sulphas, 32 mgm. tablets, 500 in a bottle, and 5,000 bottles sodii carbonas monohydratus (for surgical use) ½ pound in a bottle. Quotations must reach the supply depot not later than February 23.

Saving Pacific Coast Waste

The waste wood of the Pacific Coast destructive distillation yields quantities of alcohol, acetone and acetate of lime, which are intermediate between the quantities obtained from the Southern pine and from hardwood. The demand for charcoal for metallurgical purposes is increasing in the Northwest. With certain modern improvements in distillation, whereby the refining costs are greatly reduced, it is probable that a profitable industry could be established from this waste wood as a material. Much could be done if the practice of clean logging, and the consequent production of forest cordwood, should be undertaken, says Prof. H. K. Benson, of the department of chemistry, University of Washington, Seattle.

The research work done in the laboratory of the University of Washington indicates that the bark of the Western hemlock, of douglas fir, Western larch and yellow pine are all sufficiently rich in tannin to be considered as suitable material for the manufacture of tannin extract. In many cases in our paper mills this bark must all be carefully removed, after which it is burned as a fuel in order to get rid of it. We are satisfied that both the quality and quantity of such extract is satisfactory for the tanning of leather, and it is only a question of time when the bark of our lumbering operations will be utilized in this way.

Only a small percentage of fish offal is being utilized at the present time for the manufacture of oil and fertilizer. Some experimental work and one small commercial plant have demonstrated that the fish oil can be advantageously used in the production of rubber substitutes. If the fisheries industry would undertake the conversion of its waste material into commercial commodities it would serve as a great stimulus for the production of the secondary products.

The Northwest has also a number of saline deposits, which until recently have been unutilized and from these are now produced magnesium sulphate in commercial quantities; others are about to produce sal soda. Many of them contain sodium sulphate, while some of them contain potash in such quantities as to warrant its recovery.

COMMITTEE ON DYESTUFFS TARIFF

The Dyestuffs Association of America has named a committee to study the tariff question. The members of the committee are Dr. J. Merritt Matthews, August Merz, of Heller & Merz; R. T. Dicks, of Dicks, David Co., and H. G. McKerrow, of E. F. Drew & Co., all of New York; L. A. Ault, of the Ault & Wiborg Co., Cincinnati; and C. S. Althouse, of the Althouse Chemical Co., Reading, Pa.

Meetings have been held to systematize the information collected and suggestions made by dye manufacturers, in order to present the material to the United States Tariff Commission. It is believed that the committee will be able to render a valuable report on the outcome of the tariff negotiations at the meeting scheduled for March 6, at the Chemists' Club, when a permanent organization will be effected.

The by-laws have been drafted and will be put before the meeting for ratification or amendment, and a recommendation as to the permanent officers of the Association will be made for the consideration of the representatives present.

"Properties of Portland Cement Having a High Magnesia Content," is the subject of Technologic Paper No. 102, which has been published by the United States Bureau of Standards.

0

d

1

d

d

MADERO BROTHERS IN RECEIVERS' HANDS

Arrest of Tonko Milic Discloses Transactions With New York Banks Amounting to \$218,000, Based on Warehouse Receipts—Some of the Creditors

Receivers took charge of Madero Brothers' business on Monday, Feb. 18, when an involuntary petition in bankruptcy was filed in the Federal District Court, New York, by three creditors. Other claims will be filed at once. The first creditors to take action were the New York Consolidated Drug Company, \$2,000; Edward J. Barry, \$144, and Rockhill & Vietor, \$4,000. But it was said that other claims, some of them ranging as high as \$35,000, would be filed with the court within a short time.

A report made by the company for the year ended Dec. 31, 1917, gave the assets as worth \$757,068.66, and the liabilities \$355,962.59. In the list of liabilities were leans from banks, \$104,865; bills payable, \$134,188.20, and merchandise unpaid, \$116,909.59.

The firm consists of three uncles of the late President of Mexico, Francisco Madero. They are Ernesto, Salvador, and Alberto Madero. Ernesto is the President of the firm. He is now on his way here from Texas, where he has been attending to some of the firm's widely scattered interests. Ernesto was the financial official of Mexico when his nephew was President, but when Carranza became President he not only deposed him but seized all of the property of the Madero brothers. Later the property was returned.

Shortly after the petition in bankruptcy had been filed Judge Mayer named Samuel Strasbourger and Nathan A. Smyth, receivers. With their counsel, Irving L. Ernst, and Charles A. Kalish, counsel for the petitioning creditors, they began at once an examination of the company's affairs. The concern occupies a four-story building at 100 John Street, and it also has offices at 115 Broadway. The business was incorporated in this State in 1913 with a capital of \$1,000,000, of which \$264,600 is outstanding. It has been a very large advertiser, having spent hundreds of thousands of dollars in seeking business through publications in various parts of the world.

The troubles of the firm became public, last week, when Tonko Milic, an Austrian, head of the chemical department, was arrested for obtaining money under false pretenses. On Feb. 6 officers of the Army and Navy Intelligence Service seized thirty-two cases of salicyclic acid on Pier 7 in Brooklyn, where they were awaiting shipment to the military hospitals in Italy. It was said that a representative of Felice Misleri of Milan had ordered from Madero Brothers thirty-two cases of quinine, that the salicylic acid had been substituted for the quinine, and that those responsible for the substitution must have some connection with Madero Brothers, who had received the order. The investigation which followed resulted in the arrests of Milic, Harry Caldwell, proprietor of the Hanover Warehouse in Water Street and Saul Winkler, another employe of the firm. All of the prisoners were held in bail for examination on Thurs-

day, Feb. 21.

It has since been learned that the Bank of Commerce, the Guaranty Trust Company, and the Equitable Trust Company had loaned on warehouse receipts, said to be the property of the firm. \$218,000

the property of the firm, \$218,000.

Mr. Kalish, counsel for the creditors, said that he understood word had been received from the President of the firm that nobody would lose anything.

Louis K. Liggett, president of the United Drug Co. of Boston, has been elected a director of the Winchester Repeating Arms Co.

Scarcity of Chrome Ore

Chromic ore has been taken over by the government. The importance of chromium as an ingredient of steels used for making armor plate, armor-piercing projectiles, automobiles, and high-speed tools, has been greatly increased on account of the war, says Dr, Heinrich Ries in Mineral Foote Notes. Moreover, the shutting off of sources of supply usually drawn upon by the United States, has served to greatly increase the North American production.

The element chromium was discovered about 1797 by Vauquelin, in experimenting with a new mineral crocoite from which he reduced the chromic oxide and isolated the metal. This mineral had been found in Siberia in 1762, and analyzed without discovering the new element. It was also found that the salts of chromic acid and especially the oxides of chromium had beautiful coloring powers.

The known supply of chromium ore at that time was limited, and in 1798 the only commercial ore known to science was the mineral then described as chromic iron and found in the Urals of Russia. It was not until 1872 that discoveries of chromic ore were made on the North American Continent. The Baltimore, Md., region is said to have supplied practically the world's consumption until about the time the Civil War started.

Some idea of the importance of foreign sources of supply to the United States in recent years may be gained from the fact that the imports in 1916 amounted to 114,-655 long tons. Of this Rhodesia supplied about 62,000 long tons, and New Caledonia about 34,000 long tons. The United States production rose from 244 long tons in 1913 to more than 47,000 long tons in 1916. California are, in 1916, brought from \$28.86 to \$34.96 per ton at the eastern seaboard.

MANY N. J. FACTORIES SHUT DOWN

Many leading industries in New Jersey were seriously affected by the order of the Public Electric Company, a subsidiary of the Public Service Corporation, closing down the electric power, owing to lack of coal. As several of the larger plants generate their own power the proportion of hands out of work is not as large as the proportion of industries idle. No exact figures can be obtained of those idle, but it is estimated at 15.000.

Of the plants shut down, it is estimated that more than 70 per cent. of their product at the present time is for war purposes. This includes the Crucible Steel Company, the Whitlock Cordage Company, which has been working day and night on Government orders; the Snead Iron Works, the Davis-Bournonville Company, makers of aero parts; the Vorhees Rubber Company; the Brady Brass. Company, the Mutual Chemical Company and the Mallinckrodt Chemical Company.

EARNINGS OF AMERICAN CAN CO.

The American Can Co. reports for the year ended Dec. 31, last, a balance available for the common stock, after all deductions, of \$5,309,674, or 12.87% on the outstanding shares, which compares with \$5,076,650 last year. The net earnings before depreciation, interest charges and reserve for taxes was \$21,995,042, compared with \$11,091,048 for the 12 months ended Dec. 31, 1916. The company has reserved \$6,000,000 for Federal taxes and has written off for depreciation \$3,500,000 which is \$1,000,000 more than in the preceding year. Net earnings for the period are the largest in the history of the company.

VIEWS OF DRUG AND CHEMICAL TRADE ON CONTROL OF IMPORTS AND EXPORTS

License System Likely to Restrict Importation of Many Products—Allies May Suffer Loss of Trade in Raw Materials—Not Stringent at First

President Wilson's proclamations announcing Government control of foreign trade make it necessary to secure licenses for shipping or receiving goods in export or import business. The purpose is to make available tonnage for the transportation of an army of 1,500,000 men to France this year and for the movement of the supplies which such an army will require. Confidence exists that, taken in conjunction with the speeding up of shipbuilding, this object will be attained.

Importing firms are more critical of the Government plan than the exporters who had become more or less reconciled to Federal control during the few months that regulations have been in force regarding the exportation of certain products. The importers say that practically all the steamships coming from Europe are empty and that the license requirement will reduce the imports. Shipping men say that it will work a hardship on American business men, who need the imported materials, and that it will cut off revenue from our allies who sell us the materials as well as deprive them or American shipowners of the freight rates.

It is said that at the outset the War Trade Board, to whose charge the foreign trade of the United States is assigned, will be lenient, stopping only such imports and exports as are clearly incompatible with the tonnage requirements of transatlantic service. Moreover, the idea will be always in the mind of the authorities that too stringent restriction of foreign commerce at the start would be as disastrous to the Allied cause, because of the disturbance it would create, as to permit the continuance of trade without a check.

The Treasury Department, acting on a request from the War Trade Board, has instructed collectors to accept shippers' export declarations in lieu of individual license for all goods which have not hitherto required a license when it can be shown to the satisfaction of the collector that the goods are covered by either a bill of lading marked "for export" or a through export bill of lading provided the bill of lading is dated February 19, 1918, or earlier, and further provided that the goods are actually exported by March 15.

The Japanese trade will be pretty hard hit in spite of the assurances that any cut down will be gradual and that care will be exercised to do as little injury as possible to the nation's foreign trade. Aside from arousing widespread discussion in drug and chemical trade circles, the announcement from Washington in regard to Federal control of all imports and exports was without influence. The opinion was expressed in the trade, however, that the new regulations would be likely sooner or later to have a rather marked effect upon certain commodities, especially in the case of im-Many products of foreign origin have been forced to abnormally high prices, owing to gradually increasing scarcity due to the steadily diminishing supply of ocean tonnage, and many expressed the belief that the new regulations covering importations will be reflected in increased stringency and still further advances in prices.

As to exports it was pointed out that the export channels have been steadily growing narrower in recent months by reason of the addition of many articles to the list, for which permits were necessary to ship out products abroad, and that for this reason the new regulation covering export trade would prove less burdensome than was at first feared.

In interviews with the leading factors various opinions were expressed to a representative of Drug And Chemical Markets. Several large importers and exporters said they did not know where they stood

porters said they did not know where they stood.

From time to time since America entered the War various chemicals, crudes and intermediates have been placed on the prohibition export list until practically all of the important items have been included. After obtaining the permit from Washington shippers often found that their product was refused at the pier at the last minute with the excuse that there was no more steamer space available, and the exporter was forced to await the sailing of another vessel. In the meantime he was obliged to pay storage on his material.

Now that licenses are required for the exportation of every commodity dealers are of the opinion that time and trouble will be saved and they will also know, when the Government grants an export license, that the shipment will go through. Steamer space will be given only to materials which the Government considers a necessity at the point to which they are going. At the same time, there are a number of important heavy chemicals that must be imported, such as nitrate of soda which comes from Chile. Then there are the various dyewoods and dye bases which are now used extensively in the American tanning and textile industries, but the Government is now a large buyer of a number of these materials imported and Washington will probably allow these necessities to be imported just as freely as heretofore. Some importers are of the opinion that the step was taken primarily for the purpose of supplying sufficient steamer bottoms to get larger stocks to this country in order that the rapid growth of America's new industries may not beretarded.

REPLACING LOST EXPORT LICENSE

The War Trade Board announces that hereafter no duplicate of an export license which has been lost will be issued until an affidavit is made by the applicant, upon an approved form and filed with the War Trade Board, stating that the original license has been lost or destroyed and that no goods whatever have been shipped under said license, and agreeing that in case the original license is found, the applicant will return the same to the War Trade Board immediately; and further agreeing not to ship or attempt to ship any merchandise under the original license, under penalty of the law.

In order to avoid serious delay and congestion, it is of the utmost importance that exporters comply with the new regulations which provide that, on and after February 1, 1918, all shipments for exportation from the United States to any foreign country, including Canada, Newfoundland and Mexico, require four copies of the Shippers' Export Declaration. Transportation companies will, hereafter, refuse to accept shipments for exportation unless accompanied by the four copies of the Export Declaration.

All shipments made prior to February 15, 1918, and destined to Canada or Mexico via rail, vehicle or ferry, will not require the new form of Shippers' Export Declaration, which it was recently announced must be used in connection with export shipments made on or after February first, but may proceed under the present form of Shippers' Export Declaration, provided said form is filed in quadruplicate. All shipments leaving the United States by vessels bound for foreign ports on and after February first must be accompanied by the new Declaration form bearing the shippers' oath.

Consumption of Colors in Silk Mills

Ouantity Used and Prices Paid In 1916 Compared with 1913

HE consumption of dyestuffs in the silk industry comprises the third division of the report of the United States Tariff Commission, entitled "The Dyestuffs Situation in the Textile Industries, 1913-1916." The cotton and woolen mill consumption was given in previous issues of Drug and Chemical Markets.

Table 4 summarizes the data for the consumption of dyestuffs and chemicals in 1913 and 1916 for eight representative silk manufacturers. Separate totals are given for 26 dyestuffs, the value of which represents 43 per cent. and 62 per cent. respectively, of the total value of all dyestuffs and chemicals used by the eight establishments in 1913 and 1916. Nineteen of these dyes are coal-tar products, while the remainder are natural

or vegetable dyestuffs.

1)

Sulphur black and direct black, which in 1913 were used in larger quantities than any other coal-tar dye-stuffs, showed substantial increase in 1916. The only other coal-tar dyes which were used in increased quantities in 1916 are orange II, soluble blue, methylene blue, alkali blue and chrysophenine. Orange II, according to a statement from one of the manufacturers, has been made in this country for some time and even before the war was being supplied to American consumers in considerable quantities. Methylene blue is also manufactured in the United States. There was an increase in the quantities of the natural dyestuffs consumed, particularly logwood, cutch and sumac, Hematine, a refined extract from logwood, showed a decrease in the quantity consumed, but the decrease is more than offset by the increased use of the cruder logwood extract.

The average price paid for each of the dyestuffs for which the totals are given was greater in 1916 than in 1913. A number of these dyes, however, were from stock which was purchased in 1914 and 1915, and for this reason the average price does not give a true indication of value. In general, as in the cases of primuline, patent blue, chrysophenine and alkali blue, the higher prices correspond with the dyestuffs in which there was the greatest shortage. The increase in the total value of all the chemicals and dyestuffs used by the eight establishments amounted to 232.4 per cent., while the increase in quantity was only 19.8

per cent.

In response to the inquiry concerning the scarcity of dyestuffs in August, 1917, the silk manufacturers mentioned rhodamine, primuline, and certain other of the finer dyestuffs which are largely used in this in-These include the principal triphenylmethane coloring matters, patent blue, silk blue, alkali blue and methyl violet; the vat colors made from anthraquinone and carbazol; the alizarin dyes and two important azo

colors, benzopurpurine and chrysophenine.

On the whole, the practice of using substitutes does not obtain to any great extent in silk manufacture. Owing to the difficulty in obtaining satisfactory substitutes, many light and special shades were abandoned when the original dyestuffs were no longer available. There has been an increase in the use of the natural dyestuffs, particularly of logwood and cutch. Logwood, cutch and gambier produce blacks similar to those obtained from certain acid blacks which were formerly imported from Germany. Mixtures of two or more American-made dyestuffs will often produce effects similar to those of the needed dyes. An example is found in the case of rhodamine which is substituted by a mixture of azo rubine and magenta.

Some of the opinions as to how American-made artificial dyes compare with imported dyes of the same

class are quoted below:

"The American-made dyestuffs used by us in a very few cases are, in our own opinion, equal in quality, fastness and uniformity to the imported dyestuffs of the same class which we used prior to August, 1914; for example, acid orange and direct black have always been made in this country, and the former has, in many cases, even before the war, been furnished by American manufacturers

to the German dyestuff importers."
"With the exception of sulphur black and direct black, the American-made synthetic dyestuffs are not as fast to light, etc., nor are the quality and uniformity as good as the imported dyestuff.

"Colors not as bright, lower in strength and not uniform in production. Considerable improvement in certain colors this year over the product of 1915."

"American-made artificial dyestuffs are almost as fast and as uniform as the imported dyestuffs. Their tinctorial value, however, is decidedly less; this, of course, will be remedied when production becomes greater."

"The American-made artificial dyestuffs are the equal of the imported dyestuffs of the same class as regards fastness and uniformity. As regards quality, I have found that the American-made dyestuffs are from two to three times as strong as the imported dyestuffs."

The requests for information concerning the operation of the present dyestuff schedule of the tariff, or suggestions as to desirable changes, brought replies from some of the large manufacturers of silk goods. These replies are quoted by the Commission without indorsement, criticism or comment.

We do not consider that the present dyestuff schedule of the tariff has ever had an opportunity to demonstrate what the its effect upon the dyestuff industry will be, because the war itself has automatically shut off almost all importations of dyestuff. In our opinion, however, the eventual result will be that the rates will only prove sufficient to protect low-grade standard dyes and that it will not be possible for American manufacturers to produce highly refined high-grade specialties under the protection offered. We criticize the ad valorem feature of the tariff upon the ground that it has frequently proved in the past to be very difficult and often impossible to administer an ad valorem duty honestly, because of the difficulty in ascertaining the value of the goods. We favor specific

"We believe the exigencies of commerce in this country are such as to justify the imposition of any tariff which the Commission may decide upon as necessary (after being in possession of all the elements entering into cost of production and available raw materials) to create a sufficient interest and a large enough incentive for inducing numerous establishments to produce the most varied output in dyes and chemicals."

"It is necessary to the development of the color business that a good liberal policy of protective tariff be adopted. The domestic plants have only scratched the surface of the color business, and the cost of development must be charged to color users, of which we are willing to pay our share."

"Assuming that suitable colors can be turned out in this country, then American capital should be protected against foreign made goods by a tariff sufficiently high to cover United States manufacturers against loss. Our preference is for dyes made in the United States if quality is what it should be"

"Think that the present dyestuff schedule of the tariff is O. K. provided the cost of labor does not go higher. In case of increased cost of labor, the manufacturer should be protected."

"Regarding the protective tariff on dyestuffs, the American manufacturer has to improve his product considerably and standardize his colors before you can consider too high a tariff on foreign-made dyestuffs."

TABLE 4-DYESTUFFS USED BY EIGHT IMPORTANT SILK MANUFACTURERS, 1913 AND 1916.

			nount used					
	191	13		1916		ge price	P. C. o	
	Quantity		Quantity			per lb.	—In t	
Dyestuff	Pounds	Value	Pounds	Value	1913	1916	quantity	
Sulphur black	79,858	\$13,183	103,165	\$120,841	\$0.17	\$1.17	29.2	816.6
Direct black	. 31,833	7,035	39,636	44,053	.22	1.11	24.5	526.2
Azo yellow	. 10,303	4,482	5,400	23,920	.44	4.43	-47.6	433.7
Fast gray		11,131	4,377	12,812	.90	2.93	-64.7	15.1
Chrysophenine	1,222	878	3,991	34,028	.72	8.53	226.6	2,775.7
Primuline	4,400	1,598	3,318	17,778	.36	5.36	-24.6	1,012.5
Induline	. 3,700	2,133	3.255	3,402	.58	.93	-12.0	42.6
Orange II		222	3,133	2,975	.18	.95	153.3	1,240.1
Soluble blue		1,576	2,308	9,517	.91	4.12	33.6	503.9
Fast silk yellow	7,020	4,203	2,252	1,516	.60	.67	-67.9	-63.9
Methylene blue		658	1,980	2,971	.54	1.50	61.7	351.5
Quinoline yellow		- 817	1,667	2,537	.34	1.52	-30.7	210.5
Palatine black	13,474	3,836	896	1,032	.28	1.15	-93.4	-73.1
Methyl violet		1,214	1.057	1,788	.74	1.69	-35.8	47.3
Rhodamine		1,253	967	3,878	1.05	4.01	-18.7	209.5
Fast red		450	953	1,887	.31	1.98	-33.8	319.3
Alkali blue		523	936	5,553	.76	5.93	36.1	961.8
Brilliant green		1.087	1,177	1.717	.50	1.46	-45.9	58.0
Patent blue		2,190	440	3,183	1.08	7.24	-78.3	45.4
Gambier	167,829	9,417	214,162	23,063	.06	.11	27.6	144.9
		2,550	169,623	48.236	.08	.28	447.2	1,791.6
		2,250	77,549	9,635	.07	.12	139.4	328.2
	62,021	6,190	54.117	20,249,	.10	.37	-12.7	227.1
	42,203	1.951	18,770	1,522	.05	.08	-12.7 -55.5	-22.0
			9,917	1,641	.06	.17	41.7	
		420					-59.9	290.7
Archil	8,829	942	3,537	1,149	.11	.33	-39.9	22.0
•	531.266	\$82,189	728,584	\$400,523	\$0.15	\$0.55	37.1	387.3
Chemicals and all other dyestuffs	1,508,033	110,802	1,714,289	240,960	.07	.14	13.7	117.5
Total	2,039,299	\$192,991	2.442.873	\$641,483	\$0.09	\$0.26	19.8	232.4

* A minus sign (-) denotes decrease.

GERMAN SAGACITY IN LOCATING DYE

Since the purchase of the German dyestuffs plant at Ellesmere Port on the Mersey River, England, by British manufacturers the number of colors produced there has been steadily increased. The chief demand at the present time is for colors to dye khaki, and the energies of the staff at Port Rainbow have been devoted to meeting it. The bulk of the production consists of newly patented colors made nowhere else in England, and especially adapted to the dyeing of khaki. Among the most important of these products may be mentioned Olive Brown SB, Mounsey Olive Brown and Chrome Yellow MY, by means of which the required shades for military cloth may be obtained with simple mixtures, applied by a process which combines large output and simplicity of application, together with a fastness superior to that obtained by any other process.

The works have good railroad facilities, but the German experts selected the site because it offered cheap transportation by water. The Germans brought their crude materials from the Fatherland. All the successful color manufactories in Germany, with one exception, are situated either on the Rhine or on the navigable portion of its tributary, the Main. The exception to this rule is the Actiengesellschaft fuer Anilinfabrikation of Berlin, which has a moderate substitute for the Rhine in the River Spree, yet it is to be noted that this company las not been nearly so successful as those founded on the banks of the Rhine.

What does the Rhine mean to these large German works? It represents, first of all, the cheapest possible

means of transport, and only those who are well acquainted with the factories on that river know what a potent factor that has been in their success. It means also abundant and cheap water supply, and a convenient and economical means of disposal of effluents.

The duty of the committee of experts was to discover a site for a works which would possess advantages approximating as closely as possible to those of the parent factories on the banks of the Rhine. These conditions they found on the River Mersey. The committee had also another object in view when visiting Britain, in which they were not successful. They wished to purchase a large tar distilling concern so as to insure supplies of raw material for the new factory—a policy which has been followed in Germany.

DYESTUFFS FROM SWITZERLAND

Dyestuff constituted a large percentage of the exports invoiced at the American consulate at Base Switzerland, for the United States during 1917, according to invoices certified at the American consulate at that place. The shipments were as follows: Aniline colors, 1,598,542 pounds, valued at \$2,587,618, and artificial indigo, 1,532,100 pounds, valued at \$1,048,226.

AETNA EXPLOSIVES CO. TO MAKE COLORS

The Aetna Explosives and Chemical Company is to build a plant at Huntington, Pa., which will be adapted for the manufacture of dyes and chemicals after the close of the war, when the orders for smokeless powder are expected to decrease. The buildings will cost about \$500,000.

British Export Embargo Changes

Changes in the British embargo proclamation of May 10 have been cabled to the Department of Commerce by Consul General Skinner, London, as follows:

Proclamation of May 10 prohibiting exportation is further amended as shown below. Symbols used to indicate class of prohibition are as follows: (A) denoting prohibition to all destinations; (B) prohibition to all destinations other than British possessions and protectorates; (C) prohibition to all destinations in Europe and on the Mediterranean and Black Seas other than France, Russia, Italy, Spain and Portugal.

The following headings are added:

(A) Ambergris; candles; cartridges, charges of all kinds and component parts and tools and accessories for filling or repairing rifle and shotgun cartridges; caustic soda and mixtures; chlorides of tin; oxide of tin and compounds; vegetable fibers not specifically prohibited; firearms and component parts and tools and accessories connected therewith; all goods wholly or partly of flax and linen, except made-up wearing apparel; gum tragacanth; night lights; oakum; copying ink; pencils; fur and hair; sealskins; tapers; tin and its alloys; tin ore; wire rods and iron or steel wire and articles wholly thereof.

(B) Compounds of tin, except chlorides and oxide of tin; silk and silk manufactures of practically all kinds; manufactures of tin except hollowware; tin plate and receptacles made from tin plate.

(C) Vegetable fibers and tissues and manufactures thereof not specifically prohibited; made-up wearing apparel wholly or partly of flax and linen.

Certain additions listed above are extensions or modifications of former headings. The following old items are accordingly removed:

(A) Candles wholly or partly of paraffin wax or tallow; cartridges, charges of all kinds and their component parts: caustic soda; coir fiber; New Zealand flax fiber; rifled and unrifled fire arms and component parts; canvas hose; unbleached cloth, woven from bleached or unbleached flax yarns, whether pure cloth or yarn or mixed with other material, exceeding 8 ounces per square yard, or if of 8 ounces or less aggregating 96 threads or more per inch, warp and weft combined; linen thread; linen yarn; night lights wholly or partly of paraffin wax or tallow; iron wire and articles wholly thereof; iron wire rods; steel wire and articles wholly thereof; steel wire rods.

(B) Chlorides of tin; oxide of tin and compounds; gum tragacanth; oakum; untanned hair sealskins; silk and silk manufactures of practically all kinds; tin and alloys not specifically prohibited; tin ore.

z

S

e

(C) Candles unless wholly or partly of paraffin wax or tallow; compounds of tin except chlorides and oxide of tin; vegetable fibers not otherwise specifically prohibited and tissues and manufactures of such fibers; cloth woven from bleached or unbleached flax yarns not otherwise specifically prohibited, whether pure or mixed; goods wholly or partly of flax not otherwise prohibited; hight lights unless wholly or partly of paraffin wax or tallow; manufactures of tin (except hollowware, tin plates and receptacles made from tin plates).

President Wilson has nominated Thomas W. Page to be a member of the United States Tariff Board. Professor Page now holds the chair of economics at the University of Virginia. He will succeed Daniel C. Roper, who resigned from the Tariff Board to become Internal Revenue Commissioner.

THE HUGE TASK OF SUPPLYING DRUGS AND CHEMICALS FOR ARMY AND NAVY

More Quinine Called for Than was Available in the Whole World—Containers Needed Were Beyond Capacity of Manufacturers to Supply—Proposals Cut to 25 Per Cent of Estimate.

The report of the Committee on Industrial Preparedness which was read at the meeting of the American Drug Manufacturers in New York gave some interesting facts about the Government requirements in chemicals, drugs, etc., for the army and navy. The pharmaceutical and chemical manufacturers were organized in one group, Class I. The report says:

The organization meeting of Class I Manufacturers was attended by the executives of about 150 Pharmaceutical and Medicinal Chemical manufacturing houses summoned from all parts of this country and was probably the largest meeting of such manufacturers, large and small, ever held.

Organization of the class being perfected, a general committee was appointed from which a smaller Executive Committee of five to better carry on the work, was appointed, of which Mr. Ohlinger was made Chairman. This Executive Committee was given full power to act. It was given temporary offices in the Munsey Building, Washington, where it spent a week working day and night, preparing and grouping the lists, making suggestions as to standards, equivalents for drugs no longer obtainable, conforming to trade customs as to size and style of containers, packing, shipping, formulas, etc. After consulting with the members of the General Committee by wire, the action of the Executive Committee was unanimously approved.

The Executive Committee went over the lists of drugs and chemicals supplied by the Army, (including the Veterinary list), and Navy. The requirements for the Navy were small and the lists readily arranged. In the case of the Army the lists called for enough materials for 1,000,000 men for one year and necessarily called for tremendous amounts of some commodities. For instance, there was something like 100,000 pounds of quinine. It was a serious question if there was that amount available in all the world. The list called for 20,000 pounds of phenacetin. This chemical was very high in price at the time and practically out of the market. The Committee suggested acetanilid in its place. On compound cathartics, the list called for 138-000,000 pills. Some of the ingredients entering into the formula were costly and scarce and it seemed unwise to offer such a quantity for manufacture at one time.

It was feared by the Executive Committee that calling for such large amounts of goods at once would be unwise since it would surely greatly affect or even upset the market to such an extent that necessary items could not be promptly supplied. For example, the number of containers needed passed all expectations, the lists of the two supply stations of the Army including the veterinary list required about 40,000 gross, or over 6,000,000 containers, allowance being made for a very moderate breakage. The Committee considered it almost hopeless to get bids on the quantities indicated, particularly because of the large number of containers required. The decision finally was to cut down the amounts to 25%, equivalent to supplies for 250,000 men for 1 year, or for 1,000,000 men for 3 months. and to call for bids for these amounts every three or four months, or at shorter intervals as the army was increased. It recommended that prevailing trade customs, sizes and styles of containers, quantities and doses of the wine and avoirdupois systems be employed along with the metric without prejudice to either. This was a very important point in producing large amounts of materials in a short period of time.

There was a disposition on the part of the authorities to have the Executive Committee allot orders and award contracts to manufacturers best in position to produce. The Committee of this Class I, however, decided against such a plan as inadvisable as can readily be seen and as unfair to the trade at large, since it was felt that anyone desiring to do so should have an equal opportunity to bid on this business, and could obtain lists as they were issued by registering his name with the various supply depots of the army and navy.

The authorities also discussed the proposition of manufacturers supplying Army and Navy needs on the basis of cost plus a percentage. Again the Committee differed with those in authority since the matter of cost, particularly in reference to pharmaceutical supplies, would entail a great amount of detail and would be cumbersome and expensive for the Government to send experts to check up the cost of the hundreds of items required. The belief prevailed that the Government would obtain better prices on the basis of competitive bidding since some houses held stocks purchased at low prices and which we believed they were willing from patriotic motives to turn over to the army and navy, on the basis of the prices paid for the raw materials, rather than on prevailing market prices.

Results actually obtained in a practical way now show conclusively that the judgment of the Committee as to the desirability of the system of competitive bidding in this class was correct and wise, since the figures show that the Government actually paid less on the second award of contracts than on the first and while a record of the complete bids to date is not in the hands of the Committee, the tendency has quite uniformly been toward a shading of prices on successive bids.

PROBLEMS OF THE U: S. PATENT OFFICE

The Patent Office Society announces that a composite committee has been created, upon request, by the National Research Council, to make a preliminary study of the problems of the U. S. Patent Office and its service to science and the useful arts. This committee, which is expected to meet in Washington shortly, is understood to comprise, at the outset, the following: Leo H. Baekeland, Wm. F. Durand, Thos. Ewing, Frederick P. Fish, Robert A. Millikan, E. J. Prindle, Michael I. Pupin and S. W. Stratton.

The action of the National Research Council in forming a committee of this sort is understood to be in conformity with the wishes of Commissioner of Patents J. T. Newton and Secretary of the Interior F. K. Lane. The special committee of the Patent Office Society urges all interested to forward any patent reform suggestions at once to Dr. Wm. F. Durand, National Research Council, Washington, D. C. It is not expected that patent reform can claim primary consideration during the continuance of the war, but it is felt that the time is ripe for at least a study of conditions.

PRICE OF ZINC FIXED

President Wilson has approved an agreement reached by the War Industries Board and the producers of grade "A" zinc, fixing a maximum price of 12 cents per pound f. o. b. East St. Louis, subject to revision on June 1.

A maximum of 14 cents per pound for plate zinc f. o. b. at plants and 15 cents per pound for sheet zinc f. o. b. at plants was fixed, subject to the usual trade discount.

Business Brevities

The Davison Chemical Corporation of Manhattan, has increased its capital from \$750,000 to \$958,335.

Rapeseed to the amount of 14,893 bags and 2,750 cases of rape oil were received at London on January 24.

The plant of the Southern Chemical Products Company of Atlanta was destroyed by an explosion on February 12.

Dr. Isaac Straus, who is said to be connected with a chemical company which manufactures toluol, is detained at Ellis Island.

Copra amounting to 3,277,258 pounds, valued at \$228,-055, was invoiced at the American consulate at Trinidad for the United States during 1917.

Divi Divi amounting to 9,468,720 pounds was invoiced at the American Consulate at Curacao for the United States during 1917, compared with 14,144,530 pounds for 1916.

The building containing the offices and laboratory of the Pittman-Moore Company's serum plant near Zionsville, Ind., was destroyed by fire on February 5, with a loss of \$30,000.

Exports of sulphur from the United States in 1916 amounted to 128,755 long tons valued at \$2,505,857, or an increase of approximately 250 per cent. in both quantity and value as compared with 1915.

The War Trade Board has announced that all export licenses issued on and after January 22, 1918, shall be valid for a period of ninety days except in the case of special commodities where a different period is specifically prescribed or allowed.

The Juenalda Graphite Corporation has been incorporated under the laws of Delaware with a capitalization of \$3,000,000. Incorporators: J. F. Berrly Baugh, Birmingham, Ala.; J. Disbrow Baker, J. P. Murray, Philadelphia.

Parke, Davis & Co. stockholders, held the annual meeting on Feb. 5, at Detroit, Mich. The directors elected are: Frank G. Ryan, David C. Whitney, Henry M. Campbell, E. G. Swift, George Hargreaves, Arthur H. Buhl and Charles Stinchfield. Officers re-elected are: President, Frank G. Ryan; vice-presidents, David C. Whitney and Henry M. Campbell; secretary and general manager, E. G. Swift, treasurer, George Hargreaves; assistant-secretary and assistant treasurer, J. E. Bartlett.

The Thomsen Chemical Company of Baltimore, which has petitioned the Circuit Court for dissolution, was originally organized by the founder of the drug firm of J. J. Thomsen's Sons. The factory has been known for years as a branch of the General Chemical Company, Henry F. Baker having been at one time manager, and the present proceeding is the last step to wind up the affairs of the Thomsen Company, which had for its incorporators Philip H. Hoffman, Joel C. Dunbracco, Edmund E. Hoffman, E. Scott Merryman and John C. Westcott. The capital stock was \$150,000. Holders of the bonds were: Alonzo J. Thomsen, \$14,000; J. J. Thomsen, \$12,000, and J. J. and H. Thomsen, \$12,000.

PRODUCTION OF LIME IN 1917

Output Smaller Than in 1916 Which Was a Record Year-Only Eleven States Out of 42 Making Returns Report Increased Sales-Chemical Demand Larger.

The estimated production of lime made and sold in 1917 in the United States, including Porto Rico and Hawaii, was 5,663,818 short tons, a decrease of 10 per cent. compared with the revised total for the record year, 1916, which was 4,073,433 short tons. It surpassed, however, all records, previous to 1916. This estimate is based on returns made by the principal producers to G. F. Loughlin, of the United States Geological Survey, Department of the Interior.

Of the 42 producing States, only 11 reported increased sales. Virginia and Indiana were the only States in the group having sales of more than 100,000 tons to show increase, which amounted to 1 per cent. and 3 per cent., respectively. Other States of this group showed decreases ranging from 5 per cent. (Pennsylvania) to 36 per cent. (Wisconsin). Vermont, with an output of 53,143 tons, showed an increase of 23 per

The following table shows the estimated output of all States that marketed more than 50,000 short tons:

	To	Total Lime		ted Lime
		Per cent of		Per cent of
State	Tons	change	Tons	change
Pennsylvania Ohio Virginia West Virginia Missouri Wisconsin Maryland Massachusetts Indiana Maine New York	511,687 329,368 242,643 186,024 171,944 132,644 128,114 124,788 115,297 105,728	-5 -10 + 1 -10 - 7 -36 -16 -12 + 3 -33 -10	151,253 332,475 (a) 41,390 28,684 12,800 24,265 (a) 23,993 (a) 8,736	+ 16 - 5.5 - 5.6 - 14 - 17 - 25 - 24 - 35 + 5.7 - 11 - 20
Tennessee Michigan Alabama Connecticut Illinois Vermont California Texas Other States	73,432 65,971 65,327 63,476 53,143 51,697 51,275 168,895	- 8 -15 - 2 -23 -20 +23 - 9 - 5	15,330 (a) 7,186 (a) (a) (a) (a) 14,416 59,229	+ 4.7 + 20 + 6 + 41 + 11.8 + 141.5 + 9.6 - 1
	3 663 919	-10	719 757	1 3

a Included in "Other States."

The estimated sales of hydrated lime in 1917 amounted to 719,757 short tons, a slight gain (2,375 tons, or 0.3 per cent.) over the sales shown by the revised figures for 1916. This difference is so small that the final figures may not show a gain. This is the first year since statistics of hydrated lime have been collected by the Survey in which there has been no substantial gain in its production. The fact that hy-drated lime held its own, however, during a year in which the decrease in the production of lime was so general indicates a relative increase in its use. No companies reporting sales of hydrated lime in 1916 failed to report sales in 1912, and 2 new hydrating plants reported production, one in Arkansas and one in Idaho. The largest percentages of decrease in the production of hydrated lime shown in the foregoing table were made in States whose product is used largely for building.

The prices of lime, which generally increased in 1916, continued to rise throughout the country in 1917, though not in proportion to the continued increase in cost of production. A few companies in widely separated parts of the country were obliged to close their plants, partly on account of excessive costs but particularly because of shortage in fuel and labor. These conditions and a shortage of railway cars caused decreased

production even where the demand for lime was reported good.

The building-lime trade declined in all parts of the country. The unprecedented demand for building lime in 1916 continued until February, 1917, when the effects of the war augmented in some northern districts by severe weather, brought it to a close. A fair to good demand continued in many districts, however, through the spring, and then a general decline in building set in. This decline was due to the uncertainties of war, to increased shortage of labor, fuel and cars, and to the fact that, lime being perishable, the trade would not order large car lots as demanded by the railroads.

The demand for lime by chemical and metallurgical plants surpassed that of the previous record year, 1916, and the demand by paper mills and tanneries apparently also appeared good. The sales of agricultural lime increased in some districts, and decreased in others, owing mainly to the difficulties attending manufacture and to shortage of farm labor.

SULPHURIC ACID SUIT UP AGAIN
The litigation between the Baugh Chemical Company, manufacturers of fertilizers, and the Davison Chemical Company, producers of sulphuric acid, both of Baltimore, over the failure of the Davison Company to supply the Baugh Company with a stipulated quantity of acid under its contract, which has been figuring in the courts of that city for nearly a year at intervals, ran into another chapter on February 11, when the case of the Baugh Company for \$500,000 damages came up for its second trial, this time before Judge Dawkins in the Superior Court.

The first trial resulted in a disagreement of the jury, none of the members of which were willing to award the Baugh Company more than \$20,000 or \$25,000, while some held out for nothing at all. The Baugh Company claims that it was damaged in this amount by reason of the Davison Company's failure to deliver a specified quantity of acid between May, 1915 and June, 1916.

The Davison Company has been contending in its defense that the war brought shipping to a halt and prevented the importation of Spanish pyrites, from which the acid to be furnished under its contract with the Baugh Company was to be made, and that it was not legally bound to furnish brimstone acid, which cost very much more to produce, while the Baugh Company holds that the contract specified acid, and that it made no difference whether the acid was made of brimstone or pyrites. A formidable array of counsel is appearing on either side.

UNITED STATES IMPORTS OF TIN

Imports of tin into the United States during the calendar year 1917 showed a slight increase, notwithstanding the difficulties experienced by American importers in getting foreign export licenses and the fact that the importation of this metal is controlled by our own Government.

Including the approximate content of imported ore. but not including Alaskan ore, the total imports of tin in 1917 amounted to 69,996 long tons, against 66,624 tons in 1916, according to the Bureau of Foreign and Domestic Commerce, Department of Commerce.

Of our 1915 imports, 49,415 tons, or 74 per cent. of the total, came from England and the Straits Settlements, whereas in 1917 only 41,463 tons, or 60 per cent. came from these two sources. Imports from the Dutch Fast Indies increased to 14,148 tons, or 20 per cent. of the total, Australia, China and Bolivia supplying most of the remaining 20 per cent. A large part of our Straits tin imports came by way of England, as usual, but it was expected that the present year will witness an increase in direct shipments.

The Foreign Markets

LONDON MARKET TENDING UPWARD

Arriva's of American Specialties Fail to Lower Prices-Control of American Exports and Imports Causes Uncertainty Regarding Future Deliveries

(Special Cable to Drug and Chemical Markets)

London, Feb. 20-There have been some arrivals of American manufactured drugs and chemicals during the week, but in such small quantities that rates continue firm and in some cases further advances have occurred. Owing to the general scarcity of products the market is fairly active. The upset conditions in shipping and the announcement that the American Government had taken control of imports and exports have caused much uneasiness in drug circles. It is believed that the uncertainty regarding future shipments will make an unsettled and higher drug market for some time.

American specialties are all firmer. Supplies of acetanilid, hexamine, and the benzoates are practically sold

There is a higher market on arrowroot, balsam tolu, cocoa butter, cream of tartar, platinum and Jamaica sarsa-

Cape aloes, oil of bergamot and Japan wax are easier.

Advices by mail from London give the following

prices on products in large lots: Saltpetre-One of the English makers announces

that the firm have completed the extension of plant, and are in a position to supply saltpetre in reasonable quantities up to March 31, 1918. Their prices are: Crystals or granulated in 1-cwt. bags, 62s per cwt., crystals or granulated in 2-cwt. bags, 61s 6d; powdered in 1-cwt. bags, 64s; powdered in 2-cwt. bags, 63s 6d per cwt. for orders or contracts of two tons.

Acetanilid is rather firmer, and some parcels have

changed hands at from 4s 6d to 4s 9d per pound net, but there is not much available at these prices.

Agar-agar-Sales to come forward have been made at 2s 41/2d c. i. f., and on the spot 3s is quoted for

Canary seed is in good demand at advancing prices; early in the week fair to good Morocco sold at 132s to 135s, but since then higher prices are quoted.

Cannabis Indica-Small sales of genuine Bombay tops have been made at 20s per pound net, and the last business in Africa was at 3s.

Chloral Hydrate is firm at 9s 6d to 10s per pound net in bond to come forward.

Codeine-Applications for licenses to export codeine and its salts (and all other opium alkaloids) to Japan must now be accompanied with certificates from the Japanese Home Office, similar to those in vogue for morphine and cocaine.

Menthol is very flat and easier, with spot sellers at 13s per pound. Fair sized quantities have arrived.

One hundred cases of opium were received in Liverpool during the period from Jan. 14 to Jan. 19.

Exports of aloes from the Union of South Africa during October amounted to 289,106 pounds, making a total for ten months of 700,543 pounds, against 852,062 for the same time in 1916.

British Dye Situation

In regard to the claim of London merchants engaged in the textile trade that they had secured 257 secret 'recipes" for the manufacture of aniline dyes, which had been used in German factories, the British Board of Trade is reported to have said that as yet it had no opportunity to test the merits of the claim. It was pointed out that the Badische Co. is only one of several German companies engaged in the manufacture of dyes, One of the latest catalogues gives exactly 1,001 dyes, each representing a distinct color, while the modifications-the finer shades of similar colors-run at least to 2,000 or 3,000. Different firms offer similar things under varying names, so that 257 recipes-a term which is not in accordance with the technology of the trademust not be taken to represent the whole of the German dye industry.

Prof. Arthur G. Perkin, head of the dveing department in the University of Leeds, is reported in the Yorkshire Post to have said that he reserved judgment until a statement on the subject was forthcoming from an English expert of standing. He said there was much misapprehension in the public mind as regards color manufacture, and a very general idea that the whole thing depended upon secret processes. There was, however, a very large range of dyes in the actual formation of which no essential difficulty occurred, and the recipes for the manufacture of these would not be of very special value.

The reason why these had not been made previously in this country was not a lack of knowledge as to the formation of the dye itself, but a lack of experience in the economical preparation of the more or less intermediate materials from which the dyes were prepared, and unless, therefore, the recipes in question included a knowledge of these facts, they would not be of much benefit to Great Britain.

In the annual report of Levinstein, Ltd., it is declared that larger plants are needed before British manufacturers of dyes can supply the textile industries adequately. The Government is urged to give the necessary financial assistance and special priority for the erection of plant. Speaking of the steps already taken by the British Government, Levinstein, Ltd., says the amalgamation and pooling of resources, research and knowledge, originally proposed, has so far not been achieved. The investment of £2,000,000 in British Dyes (Ltd.) has not solved the problem of obtaining adequate supplies of British-made dyes.

Some 15 months ago a joint committee of the dye makers and dye users drew up a list of the essential dyes-said to be 400 in number-that are required for the maintenance of the British textile trades, but no organized effort of a national character in the way of facilities for obtaining steel and other structural material for plant, raw material for the dyes, labor and capital, has yet been made in the United Kingdom up to the present time.

The directors of the British War Trade Department has issued notice that licenses for future exports to America of shellac and lacs of all kinds will be drawn for consignment only to the United States Shellac Importers' Association, Inc., New York.

How Zinc Dust Is Made

Zinc dust is a heavy, bluish-grey powder consisting chiefly of metallic zinc. It comes on the market in various

degrees of fineness and purity.

The first zinc dust of commerce was obtained as a byproduct in the production of spelter from zinc ores. The condensers in which the molten zinc is collected are provided with sheet iron "prolongs" in which the very finely divided metallic fume which escapes condensation in the condenser proper is collected. The zinc dust (or blue powder, as it is commonly known), is of varying degrees of purity, the metallic zinc content running as low as 80 per cent. It will be seen from the crude method of manufacture that other impurities besides zinc oxide are carried over in considerable amount. Cadmium, arsenic, lead and particles of ore and coal are to be found in this product. This blue powder is prepared for the market by screening the "prolong" collection through the proper sized mesh. This material was imported in large quantities from the zinc smelters in Germany and in Belgium, and is also manufactured in the United States.

A decided improvement in the manufacture of zinc dust was made in this country by Messrs. G. C. Converse and A. B. DeSaulles, who patented the process known by their names. In this process zinc dust is made from pure spelter and the impurities which appear in the ordinary blue powder of commerce are practically eliminated. The spelter is boiled and the zinc vapor is condensed in the form of an exceedingly fine uniform metallic fume. This operation is conducted in an atmosphere free from air and the percentage of zinc oxide is much decreased, so that the product of the Converse-DeSaulles process contains from 92 to 94 per cent. of

metallic zinc.

The fume product obtained in this process can be readily distinguished from any other zinc dust by its exceedingly minute and uniform particiles. These particles are so fine that no screens can be constructed to determine the actual particle size. Examination and comparison of this material with other zinc dusts under a microscope is the only method which will show the extreme division of the fume product made by the Converse-DeSaulles method. Size is of great importance in securing a proper

reaction in the dye industry.

A recent development of the art is the production of zinc dusts containing from 96 to 98 per cent. metallic zinc. These dusts are made by breaking up molten spelter into finely divided particles by means of an inert gas under pressure. This dust apparently possesses advantages for certain specific trades; for example, in the art of producing metallic zinc coatings on other metals such as the Sherardizing and Schoop process. Up to the present time, however, no dusts produced in this manner have approached the degree of fineness and uniformity obtained in the Converse-DeSaulles method and consequently their application is somewhat limited.

The method of determining the metallic zinc content in zinc dust is one which should be standardized. Methods have been employed in the past by unscrupulous dealers which give high results for the metallic zinc content, the error being as high as 5 per cent. The method of analysis now in use by the leading producers and consumers depends upon the evolution and measurement of the hydrogen generated when a sample of the zinc dust is treated with dilute sulphuric acid. Where specifications are in use great care should be employed in checking up

this question of analysis.

Previous to the European War the United States obtained practically all of its zinc dust from Germany and Belgium, by reason of the cheapness of labor in those countries and the lack of sufficient protection for the

product made in the United States. The following table shows the amounts imported:

19101493	net	tons
19111713	66	44
19122736	66	44
19132368	44	66
19142004	66	66
1915 707	46	46
1916	66	66

In 1913 two smelters were engaged in the manufacture of zinc dust in this country. When war conditions cut off America's foreign supply, several more smelters took up the production on a large scale, and today American needs are being taken care of by American producers.

The following table gives the output of zinc dust in this country since 1910:

1910	69 net	tons
1911	54 "	44
1912 4	92 "	46
19134	23 "	66
1914100	04 "	46
191517.	55 "	46
191623	18 "	46
191770	00 "	ee *

*Estimated.

This production is by no means the result of simply eliminating importations, but is largely due to the tremendous growth of the dye industry in the United States. The steadily increasing production indicates that it will no longer be necessary to import zinc dust, and if proper protection is given to the American industry, exports will probably take place when the world returns to normal times, in view of the superior quality of the American product.

Zinc dust is used in the dye industry for its reducing properties, both in acid and alkaline solution. It is also used in the precipitating of gold in the cyaniding industry. The Sherardizing process of galvanizing has assumed considerable importance in this country, and is using a comparatively large tonnage for the finest kind of galvanizing work, where machine parts have to be given a protective coating and still maintain their fit. It finds considerable application in the manufacture of anti-corrosive marine paints, and in the purification of zinc liquors from lead and cadmium in the production of pure solutions for the manufacture of lithopone and electrolytic zinc.

CAPITOL CHEMICAL CO. IN BANKRUPTCY

The Capitol Chemical Company of 2 Rector Street, New York, has gone into bankruptcy. The liabilities amount to \$103,882 in unsecured claims. The company has no assets. Voluntary petitions have been filed individually and as partners by Jacob F. Reichard and John Reston, doing business under the firm name of the Capitol Chemical Company. The company's creditors are only four in number, chief among whom is Bush, Beach & Gent, Inc., of New York, to the extent of \$86,958.

The Secretary of Agriculture of Pennsylvania has announced that all nitrate of soda sent to the farmers of Pennsylvania by the Federal Government will be exempted from the requirements of the State fertilizer law and that farmers will not be required to pay the fertilizer brand fee.

E. A. Bromund & Co., dealers in wax, have removed their offices from No. 356 West Broadway, New York, to larger quarters at No. 258 Broadway.

Trade Notes & Personals

S. T. Atkinson, druggist, of Saskatoon, Sask., is discontinuing business.

The drug store of J. J. Duncan, at Pottersburg, near London, Ont., was destroyed by fire on Feb. 5.

G. A. Wilte carrying on business as the Wilte Drug Co., Port Arthur, Ont., has assigned to Arthur W. Thompson.

Bourque & Lippens, druggists, and Dr. J. O. Lambert & Co., manufacturers of patent medicines are registered at Montreal.

The increase in capital stock of the Garfield Chemical and Manufacturing Corp., New York, from \$500,000 to \$1,000,000, has been certified.

An explosion at the plant of the Beaver Chemical Co., Andover, Mass., last week is estimated to have caused damage to the extent of \$100,000.

The store of the Dunlop Drug Co., owned by W. S. Dunlop, on the northwest corner of Main St. and McDermot Ave., Winnipeg, Man., was destroyed by fire on February 1, with a loss of \$30,000, mainly covered by insurance.

The Canadian Remedy Co., Ltd., has been incorporated with head office at Toronto, Ont., and an authorized capital of \$30,000 to manufacture and deal in drugs, chemicals and medical compounds. Alonzo B. McClure, Abram G. McNight and Robert J. Alexander are provisional directors.

The Treasury Department has ruled that although the importation of distilled spirits for beverage purposes is prohibited, the acts of Aug. 10 and Oct. 3, 1917, will not operate against the importation of medicinal preparations, including tinctures and elixirs, dentifrices, and similar compounds, nor against bay rum and similar toilet preparations used in the arts and trades, such as varnishes, shellacs, and similar preparations.

Germany sold to the United States before she plunged the world into war \$250,000,000 worth of chemicals every year and less than 4 per cent. of this represented labor cost. By the time the war is over Germany will have lost this immensely valuable special commerce according to Prof. D. D. Jackson of the chemical engineering department of Columbia University because the chemists of America spurred by necessity have learned to do what the Germans accomplished.

Orders have been issued lifting the freight embargo as to drugs and medicines previously imposed on the lines of the Pennsylvania, Baltimore & Ohio, and Philadelphia & Reading Railroads. In the case of certain agents, however, misunderstandings arose because of the fact that the embargo was originally laid in an official written communication from Washington, while the orders exempting drugs and medicines came by telegraph or telephone from New York. In the event that members of the trade encounter any difficulty in having their shipments accepted they should at once take the matter up by telegraph with A. H. Smith, New York Central Terminal, New York City.

Profits In Quinine

The Bandoeng factory in Java which has a contract with the cinchona planters for their output of bark from which quinine is made, are seeking to renew the agreement which lapses in July next. The Bandoeng factory paid a dividend of 93 per cent. last year, and the shareholders are naturally reluctant to lose the monopoly privileges which they have enjoyed.

It is proposed that stronger control over shipments of bark shall be enforced. The planters have had a prosperous year. They sold all their cinchona, including the accumulations of past years.

The Bandoeng factory's report states that during 1916 about 145,000 kilos of quinine was received as bark and of this, at the end of the year, 45,000 kilos remained unworked. Working costs were nearly doubled, but work was carried on night and day. The stock of quinine at the beginning of 1916 was valued at 291,795 florins (florin is a trifle over 40 cents). The amount of quinine produced during the year was valued at 2,907,444 florins, and that unsold on December 31, 1916, was held at 563,399 florins. Sales realized 4,653,196 florins, giving a net profit of 1,869,597 florins compared with a profit of 837,313 florins in 1915.

METAL AND CHEMICAL COMPANIES UNITE

A consolidation of the Goldschmidt Detinning Company and the Goldschmidt Thermit Company has been effected, the new corporation being known as the Metal and Thermit Corporation. The capital of the new company is \$3,250,000. The companies which were merged have been working practically jointly for the past two years and it is expected greater efficiency will be attained by the combination.

The Metal and Thermit Corporation operates four

The Metal and Thermit Corporation operates four plants, located in Jersey City, Chrome, N. J., Wyandotte, Mich., and East Chicago, Ind. The Chrome and East Chicago plants are devoted to the detinning business, the Wyandotte plant to the production of liquid chlorine and the Jersey City plant to the thermit products manufacturing.

Daniel G. Reid has just been elected a director of the new corporation, of which W. T. Graham is president.

TIN PRICES AGAIN ADVANCED

Straits tin was quoted in London, last week at £310, an advance of £4 10s within a few days, for Singapore shipment. Straits spot tin was sent up £5 10s in the same time. Standard spot also advanced £5. The cause of the upward turn is here attributed to the sinking of the steamer Glencarthy, from Singapore to London, with 1,000 tons. It is unusual for steamers to carry so much tin, and the loss must be severely felt. In the New York market sellers of Banka are now asking 75c for February shipment. Chinese has also gone up to 66c for February shipment and 64½c for March. No Straits were offered, and the spot market is bare.

The Great Western Electrochemical Company, of California, which manufactures bleaching powder, caustic soda, and products for match making, water purification, sanitation and fire extinguishing, has introduced a profit sharing system for its employees. The company was incorporated in January a year ago with Mortimer Fleishbacker, president; John F. Bush, vice-president and general manager; Arthur G. Lilienthal, secretary and treasurer, and C. W. Schedler, factory superintendent. Operations at the factory were started last July.

Iodine Needed for Wounded

The advance made in the price of iodine by the Chilian Iodine Syndicate continues to be the subject of editorial comment in the British press. In a recent issue of the Chemical Trade Journal of London said:

"On several occasions since the beginning of the war we have referred to the outrageously high prices charged by the nitrate producer for the by-product iodine, used in enormous quantities in the treatment of the wounded. In our issue of Feb. 17, 1917, under the heading 'A Sop to Cerberus,' we referred to the reduction of the official selling price from 101/2d to 81/2d per ounce, but we recently announced its restoration to the higher figure, and once more we feel called upon to protest against the imposition.

"For obvious reasons the profits made on the commodity are never shown separately in the accounts of the nitrate companies, but that they are beyond the dreams of avarice may readily be inferred from the fact that until lately stocks of iodine in Europe were

valued at about 11/2d per ounce.

"The output is strictly controlled and pooled under the iodine combination in existence for more than twenty years and with the production of nitrate on the present scale it could easily be doubled and sold at half the current price at a handsome profit."

NEW PROCESS FOR MAKING PHENACETIN

It is reported from Iowa City that Prof. W. A. Konantz, a research chemist in the college of pharmacy at the state university, has discovered a method by which phenacetin, a drug which became almost unobtainable with the break with Germany, can be produced at less than one-half its present cost. Prof. Konantz says his process yields a pure product which meets all requirements for medicinal use.

When trade with Germany ceased, the price rose to \$40 a pound and even at that price, it was almost impossible to obtain it because of the limited supply. Domestic production has lowered this figure considerably, but American manufacturers have been unable to make the drug economically. The price now is nearly ten time as great as it was

before the war.

CALIFORNIA CHEMICAL NOTES

The Western Calcium Chloride Syndicate, of Los Angeles, has equipped a plant for the manufacture of calcium chloride.

Ventural Refining Company has erected a wax extraction plant at Fillmore, Cal. Wax will be extracted from lubricating stock and handled as a by-product.

The California-Burdett Oxygen Company has added extensive additions to its plant at Vernon, Cal. The shipbuilding industry is consuming large quantities of oxyacetylene gas.

The Stauffer Chemical Company, of Los Angeles, is erecting a one hundred thousand dollar plant on a fifteenacre tract. Hydrochloric acid will be the principal product manufactured.

At San Diego the Lower California Chemical Company is making orcein dyes, using as raw material the orchilla, a moss found growing in vast quantities along the western coast of lower California.

Foreign Trade Opportunities

The Department of Commerce, Washington, D. C., has received the following inquiries for drugs, chemicals and accessories. Reserved addresses may be obtained from the Bureau and its district and cooperative offices. Request for each opportunity should be on a separate sheet and state opportunity number. The Bureau does not furnish credit ratings or assume responsibility as to the standing of foreign inquirers; the usual precautions should be taken in all cases.

26439—An agency is desired by a man in France for the sale of chemical fertilizer. superphosphates, and fungicides for the vine-yards. Payment will be made by cash on delivery of goods at Bordeaux. Correspondence should be in French.

2640—A company in England wishes to purchase commercial or technical tannic acid in tins of 5 pounds net, each case to contain 10 tins; 1,000 pounds is desired for first shipment. The company wishes to get in touch with manufacturers only. Quotations may be made f. o. b. New York. Payment will be made in New York on three days' bill on London, with documents attached. Reference.

2641-An agency is desired by a man in France for the sale of chemical products, metallic ores, and heavy metals. Correspondence may be in English. Reference.

26451—A company in Canada desires to secure an agency for he sale of chemicals, hog stomach linings, calves stomachs, edible olors, tallows, greases, and bones. Quotations may be made o. b. point of shipment. Correspondence may be in English. Reference.

26452—A man in France desires to purchase or secure an agency for the sale of nitrate of soda, nitrate of potassium, superphosphates. dried blood, sulphate of copper. verdigris, tartaric acid, and citric acid. In case of purchase cash wfil be paid. If agency is granted, security will be given. Correspondence should be in French. Reference.

New Incorporations

Seminole Chemical Co., Manhattan, capital \$100,000. M. Suesskind, L. and I. J. Joseph, 1421 Madison Ave.

Henry L. Hughes Co., Troy, N. Y., capital \$250,000. Formed by consolidation of the Universal Brush Co., and Henry L. Hughes. Brushes and toilet articles. H. Alexander, H. J. Benedict, R. H. Goldman, 413 West 147th Street, New York City. The Import Drug Specialties Company. Cleveland, Ohio, capital \$100,000. A. E. Bernsteen, M. Gussman, Irene Nungesser, M. L. Bernsteen, Harry F. Glick.

Quenelda Graphite Corp., Dover, Del., capital \$3,000,000. J. F. Berly Baugh, Birmingham, Ala., J. Disbrow Baker and J. P. Murray, of Philadelphia, Pa.

The Benson Drug Company, Greenville, Ga., capital \$10,000. P. Benson, S. A. Moore.

Martin-Bell Drug Company, Woodward. Texas. capital \$25,000. C. M. Bell, C. H. Martin and B. R. Thomas.

William M. Simpson Drug Company, Wilkinsburg, Pa., capital \$30,000. C. P. Rhen, C. M. Johnston, both of Wilkinsburg, Pa. Taliaferro Drug Company, Peoria, Ill., capital \$6,000. Delbert Covey, Ira J. Taliaferro, W. N. Brown.

National Drug Company, Pittsburg, Pa., capital \$1,000,000. Wholesale and retail drug stores. Leonard L. Westtlen. J. E. Welland, Raymond E. Hess, Pittsburg, Pa.

Jeriko Chemical Company, Wilmington, Del., capital \$300,000. To manufacture chemicals and drugs. C. L. Rimlinger, M. M. Clancy, F. A. Armstrong, all of Wilmington. Del.
Cole Chemical Company, St. Louis, Mo., capital \$200,000. To deal in and with chemicals, drugs, etc., B. L. Cole, Ada L. Laidan, St. Louis, Mo., and Ferris Giles, of Wilmington, Del.

Capital Increases—Anthony-Hammond Chemical Works, Man-attan. From \$100,000 to \$250,000.

W. and S. Job & Co., Manhattan. From. \$100,000 to \$200,000. Davison Chemical Corp., Manhattan. From \$750,000 to \$958,335 and number of shares from 150,000 to 191,667. Change of Name-Dicks, David & Broadfoot, New Jersey, to Dicks-David Co.. Inc.

EMBARGO ON SODIUM HYPOSULPHITE

The embargo against sodium hyposulphite, imposed by the French Government, has been renewed according to a cable from the American Consul General at Paris who says:

"A ministerial decree of February 5 revokes the provisions of a former decree which permitted the exportation or re-exportation of sodium hyposulphite destined for the United Kingdom, British dominions, protectorates, or colonies, Belgium, Japan, Russia and the United States."

Color & Dyestuff Markets

IMPORT RESTRICTIONS ADVANCE PRICES

Holders of Spot Goods Expect Increased Demand— Difficulty in Obtaining Supplies Likely to Cause Scarcity in Dye Bases and Dyewoods

The New York market on colors and dyestuffs has been firm and the volume of actual trading showed an increase over the quantities of stocks that changed hands the previous week. Price changes have been upward. While several elements have entered into the situation the outstanding feature was the unsettled condition brought about by the recent rulings from Washington regarding imports and exports. The various items in the list which have been imported into this country are not in heavy supply and holders of spot material have taken advantage of the situation.

The dye bases and dyewoods used in America are imported, and in the majority of instances dealers are asking higher prices all along the line. Albumen is in strong demand, but because importers cannot get stocks here from primary points rapidly enough to take care of the consumer call, few additional orders are being booked. The same is the case with cutch, indigo, cochineal and other dye bases and dyewoods are in good inquiry and few important sellers are inclined to lower prices to any extent.

Of the five important coal-tar crudes, benzol is about the only one that is offered freely on the spot. Naphthalene is scarce on spot at Eastern points, and prices continue to advance. Phenol is practically out of the spot market as well as toluol and prices heard are entirely nominal for stocks in small quantities. The Government is keeping a sharp watch on the available supplies of the last two materials and where sales have been made, they have been subject to seizure. In contrast, it is interesting to note the weakness of benzol. One important factor stated that there was at least half a million gallons of this material available in America with few buyers in sight, and even with such a condition, it is difficult to establish a real market level and holders do not hesitate to advise that much shading would be possible on firm bids.

All the intermediates have been in steady demand. Benzoate of soda is still the outstanding feature. Prices continue to advance because of light supplies and a heavy demand. Aniline oil follows as a close second, and in some quarters higher prices are heard than those that prevailed a week ago. It appears that the bulk of the spot quantity of xylol is in the hand of speculators and for this reason wide price ranges are heard, with supplies light and a good demand. Diphenylamine, dinitrotoluol, dimethylaniline, para-amidophenol, para and ortho toluidine are quoted firmly on spot. In the main, all of the coaltar colors are moving in steady volume, with few important price changes noted.

Dye Bases and Dyewoods

Albumen—Because spot supplies are light, and the majority of importers are already behind in their orders, prices named in the local market for all grades of albumen show another advance with the general condition nominal. For the Chinese egg albumen nominal quotations range from \$1.05 to \$1.10 a pound; for the imported blood from 65c to 70c a pound, and for the domestic blood from 55c to 60c a pound.

Cochineal—Prices are firm on all grades of cochineal at 54c to 56c a pound for the silver 53½c to 54½c a pound for the gray black and from 55c to 59c a pound for the rosy black, according to quantity. The demand has been steady but not particularly large. The undertone of the market remains firm. Supplies are not abundant.

Cutch—The spot market is firm on all grades of cutch. A good demand is reported and because the quantity of spot material is not large, there is every reason to believe that the market will remain steady for some time. All stocks were held in firm hands at 18c to 20c a pound for the Rangoon in boxes; 16c to 17½c a pound for stocks in bales; 9½c to 10c a pound for the liquid and 11½c to 13c a pound for the tablets.

Divi Divi—The situation is unchanged. The inquiry is holding up well, but the demand for spot and nearby stocks is not heavy and in some quarters holders have lowered their price slightly with \$64.00 a ton heard as the inside figure. In most directions, however, holders are asking \$65.00 to \$70.00 a ton, according to quantity. On stocks for shipments, prices continue to range from \$63.00 to \$64.00. Arrivals here have not been large, but it is said that considerable material is afloat from primary points.

Fustic—Prices are unchanged and sellers were quoting with considerable firmness at the close at 25c@26c a pound for the solid, according to quantity; 4½c@5c a pound for the chips, and from \$45 to \$50 a ton for the sticks. The consumer demand for most all grades of fustic appears to be improving with spot stocks in comparatively light quantity.

Gambier—For the common gambier sellers were quoting with additional firmness at the close at 21c @21½c a pound; 10c@11c a pound for the 25 per cent. tan; 23½c@25c a pound for cubes No. 1 and 21c to 22c a pound for cubes No. 2. All gambier is in strong demand and the cube material is particularly hard to locate. Arrivals here continue comparatively light from primary points.

Indigo—The market has been quiet because little spot material is offered in the open market. Prices named in most quarters were 30c@32c a pound for the wool, and 50c to 54c a pound for the cotton.

Logwood—No important price changes have been recorded. There is a good inquiry, but the demand for spot material is not heavy. For the Mexican and Hayti sticks prices have ranged from \$36 to \$40 a ton, according to quantity, and the chips have been quoted in some quarters at $2\frac{1}{2}$ c@3c a pound. Supplies here are not large, but it is understood that stocks are rolling and afloat toward New York.

Coal-Tar Crudes

Benzol—Conditions in the New York benzol market remain about the same. Those in close touch with the situation say supplies are abundant with no apparent buying interest for spot material, and with inquiries comparatively nil the undertone is weaker. Only a few contracts are being made over the next few months, but it is only occasionally that any large contracts are heard for over the year. Large quantities, 20,000 to 40,000 gallons, both on spot and contract, are offered in the local market at 35c to 36c a gallon, while small quantities are selling at 37c a gallon, and upwards.

3

f

e

t

0

Naphthalene—Offerings of a good grade of flake naphthalene are unusually light. The demand is heavy and those who have spot material are asking high prices with IIc a pound prevailing as the inside price and 12½c a pound as the maximum. Because of these high prices most consumers are operating in a restricted manner. It was learned at the close that stocks rolling Eastward were quoted at 10½c to 10¾c a pound.

Phenol—A number of inquiries have been recorded for large quantities of phenol either on spot or nearby, but there appears to be very little available. It is said that exporters whose stocks were seized some time ago have succeeded through negotiations with the Government in securing offerings of settlement as high as 46c a pound, but as 52c was originally paid for the material those who lost by seizure are endeavoring to secure a more favorable settlement. Where figures were obtainable on small lots of spot and nearby phenol from 55c to 57c a pound was the price named.

Toluol—Only a few offerings of small quantities of toluol have been made, but the Government is keeping a careful watch on the situation and no large transactions have been recorded. Authorities from Washington continue to seize stocks and prices heard are nominal. Where figures were obtainable \$5.75 to \$6.00 a gallon have been named and it is only where a user is hard pinched, that he will pay this price.

Xylol—Considerable speculation is noticed on every hand in xylol which probably accounts for the wide price ranges. There is a steady consumer demand. Quotations for spot and nearby stocks are 35c to 50c a pound. So far as could be learned supplies are not abundant but in sufficient quantity to take care of the present volume of business. The inquiry is strong.

Acid, Naphthionic—The general condition is unaltered. The demand is steady and prices are \$1.10 to \$1.20 a pound for the crude, and \$1.40 to \$1.60 a pound for the refined. Supplies continue comparatively heavy.

Acid, Sulphanilic—In the main the condition on sulphanilic acid has been steady with prices unchanged. The inquiry is strong but the demand for spot material is not particularly heavy. The supply on hand is not large but all orders have been filled promptly. Closing prices were 32c to 34c a pound for the crude on spot and over the month, with figures for the refined ranging from 42c to 44c a pound, according to quantity.

Aniline Oil and Salts—Buying continues heavy on both the oil and the salts. Prices at the close were 27c to 28c a pound, drums extra, for the latter material, and 33c to 35c a pound for the salts. Spot stocks are becoming scarce.

Benzoate of Soda—The general situation has been quiet during the week as there have been few offerings of spot material. Because users have been unable to locate large quantities of benzoate of soda at lower prices than are now prevailing the inquiry has fallen off concerning forward positions. It has been rumored in the market that shorts are circulating fictitious offers at low figures, but upon firm orders the usual reasons are generally given for not being able to produce. The trading level for the soda was regarded as \$5.00 to \$5.50 a pound at the close with the price of the acid in the neighborhood of \$5.50 to \$6.00 a pound, according to quantity.

Benzaldehyde—The consumer demand is light and while some are unable to offer because of the present toluol situation, it is said there is plenty of material available. For the free from chlorine grade \$4.50 to \$5.50 a pound is quoted, while material with a trace of chlorine is quoted at \$2.50 to \$3.00 a pound, and with the chlorine content at \$2.40 to \$2.50 a pound.

Dimethylaniline—There are few dealers offering this material at the present time, and some producers are quoting only on contract with prices ranging from 62c to 65c a pound, some asking as high as 70c a pound. At the close there were several lots of spot dimethylaniline available at 65c a pound, subject to prior sale.

Dinitrotoluol—The local market continues in an unusually tight condition. The demand is many times in excess of the production. This material is now going into khaki colors, and where prices are heard they range in the neighborhood of 60c a pound.

Diphenylamine—Very little spot material is available, as the explosive manufacturers require large quantities. Quotations for spot and nearby stocks are nominal at 90c to \$1.00 a pound, with some asking as high as \$1.05 a pound.

Para-Amidophenol—There have been rumors of large buying orders which have caused a slight advance in prices. Spot and nearby base was quoted firmly at the close at \$4.00 a pound as the inside and \$4.50 a pound as the maximum. The hydrochloride material is quoted at \$4.60 and \$5.00 a pound, depending on quantity. Despite the apparent firmer condition, dealers are of the opinion that the above prices could be shaded on firm bids.

NATIONAL ANILINE ELECTS DIRECTORS

The National Aniline and Chemical Co., New York, held its annual meeting on Monday, Feb. 18, at the offices 244 Madison avenue. Stockholders voted to increase the number of directors and the following named were added to the Board: L. C. Jones, Clinton S. Lutkins, R. C. Taggesell and Orlando F. Weber. The other directors re-elected are J. F. Schoellkopf, J. F. Schoellkopf, Jr., C. P. Hugo Schoellkopf, of the Schoellkopf Aniline & Chemical Works, Inc.; W. Beckers, Eugene Meyer, Jr., Charles J. Thurnauer, of the W. Beckers Aniline and Chemical Works, Inc.; I. F. Stone, of the National Aniline and Chemical Co.; Henry Wigglesworth, J. M. Goetchius, of the General Chemical Company and the Benzol Products Co.; T. M. Rianhard, W. H. McIllravy, of the Barrett Company; H. H. S. Handy, E. L. Pierce, of the Semet-Solvay Company.

The United Drug Company of Boston, has declared the regular quarterly dividend of 11/4 per cent. on the common stock.

Exports of indigo from Calcutta to the United States for the year ended March 31, 1917, amounted to 5,033 cwt., against 4,931 cwt. in the previous year.

The British Government has prohibited exports of gum tragacanth to all destinations, according to a cablegram from the American consulate at London, dated February 9.

Republic Oil and Sulphur Company has been incorporated under the laws of Delaware, with a capitalization of \$2,000,000. Incorporators: R. Eichman, Louis B. Jump, of New York.

The report of the Semet-Solvay Company for the year ended December 31, 1917 shows gross earnings of \$8,340,258 against \$10,983,918 for eleven months ended December 31, 1916; net earnings of \$7,061,502, against \$10,536,611; dividends, \$1,599,992, against \$1,300,000; final surplus, \$9,627,905, against \$8,487,846.

Heavy Chemical Markets

CHEMICAL PRICES TENDING UPWARD

Acids Continue Firm on Heavy Government Buying and Limited Stocks—Bleaching Powder Supplies Growing Scarce — Speculation in Caustic Soda Continues

A good inquiry has been noted for heavy chemicals and on several important items trading has shown improvement. The more favorable weather and better transportation facilities are primarily responsible for the improvement. The Presidential proclamations placing all import and export commerce under restrictions have created further uncertainty, however, and until this new arrangement is further worked out business will continue to feel the influence of the present regulations. A number of heavy chemicals are in scant spot supply, and in the main, where price changes have occurred the tendency has been again upward.

Very little of the acids is available on spot. The Government continues to take for its own use the bulk of the output. Prices are without important alteration and in the majority of cases figures named continue purely nominal.

There is not much buying interest in caustic soda and prices have fluctuated on account of dealer speculation. It is said that supplies are sufficient to take care of a larger volume of business and there is little question that closing prices could be shaded on firm bids. Soda ash in barrels continues scarce and because of a steady inquiry higher prices are heard in some quarters.

All the alums have remained quiet, with slightly lower prices named on the lump ammonia and the lump potassium, but in quantity most of the large holders of spot supplies are quoting at firmer levels. Aluminum sulphate is firm and prices show a slight advance over those of a week ago for large quantities. Supplies of spot and nearby material are said to be unusually small. Bleaching powder is firm and because of recent heavy buying the local market has been practically stripped of spot material. The Government continues to show much interest in the future output and for this reason few quotations are heard for delivery over the year.

Only small odd parcels of acetate of lime are offered since the entire output is now being controlled from Washington and the largest factors here say they have no way of knowing when they will be in a position to place any material in the open market. Copper sulphate is in good inquiry but not a great deal of activity has been noted and some holders would be willing to shade prices on firm bids. Prices continue high on caustic potash.

Acid, Acetic—Because of light supplies prices are still nominal and it is hard to obtain quotations on large business. There is a strong consumer call from all directions, but because the Government is taking the bulk of the output, other interests are not being supplied. Closing nominal figures ranged from 5¾c to 6¾c a pound for the 28 per cent. material; 11c@12¾c a pound for the 56 per cent., 14½c@15¼c a pound for the 70 per cent.; 19¾c@21¾c a pound for the 80 per cent. and 34¾c@36c a pound for the glacial.

Acid, Muriatic—The consumer call continues heavy, but little acid is available on spot and aside from the 20 degree test the bulk of the present output is going

to the Government for the manufacture of munitions. Small spot lots of the 20 degree have been quoted in the open market at $2\frac{3}{4}$ c@ $3\frac{1}{4}$ c a pound, according to quantity, and at the close from one direction the inside figure of $2\frac{1}{4}$ c a pound was named. The 22 degree test is quoted at $3\frac{1}{4}$ c@ $3\frac{3}{4}$ c a pound, with some asking as high as 4c a pound.

Acid, Nitric—Most of the leading producers of nitric acid are still out of the market. It is understood that manufacturers of nitric are having their hands full taking care of Government requirements. Users throughout the country are inquiring for all positions but only nominal quotations are heard at $7\frac{1}{2}$ c@ $7\frac{3}{4}$ c a pound for the 36 degree test; $7\frac{3}{4}$ c@ $8\frac{1}{6}$ c a pound for the 40 degree, and $9\frac{3}{2}$ c@ $10\frac{1}{6}$ c a pound for 42 degree material.

Acid Sulphuric—Manufacturers of sulphuric are confining their efforts to filling Government requirements and taking care of old contracts. Second hands are occasionally offering small lots of sulphuric on the spot at prices higher than the nominal figures named by manufacturers. Nominally quotations are \$41.00@\$42.00 a ton for the 66 degree material, and from \$35.00 to \$37.00 a ton for the 60 degree test, drums extra in each case.

Alums—Although slightly lower prices were heard at the close on several of the important grades of alums, it appears that these figures governed only small quantities. Spot stocks are not large and sellers say that under present conditions they are not inclined to cut prices materially despite the somewhat slow buying interest. In quantity the following prices have prevailed: Ammonium lump alum, $4\frac{1}{4}$ c@ $4\frac{1}{4}$ c a pound; potassium lump $7\frac{1}{4}$ c@ $8\frac{1}{2}$ c a pound; potassium chrome, $21c@22\frac{1}{2}$ c a pound, and $18\frac{1}{2}$ c@ $19\frac{1}{2}$ c a pound for the ammonium chrome.

Aluminum Sulphate—The demand for this material is sufficient to sustain prices even at the recent level of $2\frac{1}{4}$ c@ $2\frac{1}{4}$ c a pound for the commercial, or low grade, and from $2\frac{1}{8}$ c@ $3\frac{1}{4}$ c a pound for the iron free, or high grade. Not a great deal of spot material of either grade is to be had and because of the steady inquiry the undertone of the market is firm.

Bleaching Powder—The Government continues to be the largest single factor in trading. With a steady call, and with limited supplies the condition is firm. Small export drums are being offered in light quantity at 3c @4c a pound, while in domestic drums sellers are reluctant to do business at less than 2½c a pound, with several holding at 2¾c a pound.

Calcium Acetate—Prices are entirely nominal at the old level of \$6.00@\$6.05 per hundred pounds as the Government has taken over the bulk of the production and producers must await decisions from Washington before they can place any material on the open market.

Copper Sulphate—There is a steady demand and sellers are not inclined to lower prices materially on spot or nearby stocks. Nichols brand is offered moderately on spot at 9½c@9¾c a pound, according to quantity, The price range of the other brands is from 9½@9½c a pound.

Lead Acetate—Spot supplies of all grades of acetate of lead continue light and prices closed firm at 1234c @13½c a pound for the brown sugar; 16½c@17½c

18

in

to

n-

95

g

ic

it 11

S

d

1

a pound for the white crystals; 15¾c@16¼c a pound for the broken cakes, and 16½c@17½c a pound for the granulated. There has been heavy consumer buying of all varieties and the spot market has been practically cleaned up.

Magnesite—Steady buying is reported on every hand and prices are holding firm at former levels. It is stated that supplies, while not abundant, are sufficient to take care of the present consumer call, but considerable trouble is being experienced in moving stocks promptly from the coast on account of freight embargoes. The ground material is quoted on spot at \$65 a ton, New York, while California material, calcined or dead, is still available at \$40.00 a ton, California, with a freight rate of \$12.50 on the ton.

Potash, Caustic—Most sellers are not inclined to shade 84c a pound for the light test, and there continue offers of a Western production at 81c@81½c a pound, for the 88-92 per cent. material. The lowest test was available at 63½c@64½c a pound, according to quantity. The inquiry from all directions is reported heavy. Spot supplies of caustic potash continue light and in some quarters it is stated that trouble is experienced in locating sufficient spot stocks to take care of the volume of business being placed.

Potassium, Prussiate—Prices have been well sustained and trading limited to spot stocks. For the yellow, on spot and afloat importers of the Japanese stocks are quoting firmly at \$1.25@\$1.30 a pound, and for the red prices range from \$2.25 to \$2.60 a pound, according to quantity. The demand is strong with supplies barely sufficient to cover.

Saltpetre—Closing prices were 28½ c@29c a pound for the granulated; 29c@29½ c a pound for the powdered, and 31½ c@31½ c a pound for the refined, or crystals. The demand is steady and a large volume of business has passed. The output is below normal and spot stocks are moderate.

Soda, Caustic—Caustic soda has revealed further evidence of weakness and despite the very favorable offerings the figures quoted at the close ranged between 5½c@55½c a pound. From one or two directions several spot cars were available at 5½c a pound. For delivery over March a flat price of 5c a pound is heard. On contracts over the next three months offerings have been made at 5½c@53½c a pound, while over the next six months around at 5½c a pound is the price generally heard.

Soda Ash—Early in the week sales of light ash in double bags were made at 33/4c a pound, spot, San Francisco. Buyers have been displaying little interest, except for barrels of dense ash, but prices have prevented the consummation of pending deals. At the close, light ash was available at 3c a pound. Barrels of light ash, rolling, could be had at 4c a pound and up, which barrels at works were quoted at 31/4c a pound and up.

Sodium Nitrate—Importers are quoting firmly at \$4.50 a hundred pounds for the crude. The market continues unsettled because of the recent action of the Government in direct purchases of nitrate of soda for direct distribution to farmers. Arrivals at this port from Chile have not been heavy.

EXPLOSION AT DU PONT PLANT

An explosion in a wet mixer mill at the plant of du Pont de Nemours & Co., Wayne, N. J., ten miles from Paterson, set fire to the weighing house which was destroyed. A Federal investigation into the cause of the explosion has been ordered.

In The Chemical Field

William S. Gray & Co. have advanced denatured alcohol to 73c per gallon in carloads.

Fire, on Feb. 4, badly damaged buildings numbers 9 and 13 at the plant of the Mallinckrodt Chemical Works, St. Louis, Mo.

The Syn Galenic Chemical Company, Sandusky, Ohio, has filed notice of an increase in its capital from \$20,000 to \$50,000 to provide for expansion.

Castorseed to the amount of 7,682 bags arrived at London on January 26. Nine hundred tons of castorseed arrived at Hull on January 22.

The British Government has decided to make loans of several million pounds to dye making firms to extend their plants and carry on research work.

The reduction plant of the Syracuse Rendering Company, Syracuse, N. Y., was recently destroyed by fire with total loss estimated at approximately \$60,000. C. F. Farnsworth is general manager.

Miss Helen Updegrapf, Newark, Del., a graduate of Cornell University, has been appointed assistant chemist at the Delaware College experiment station, Newark, succeeding Professor A. C. Whittier, resigned.

Jacob S. Popper is under arrest in New York for having explosives in his possession. He had a laboratory for testing high explosives and the Army Intelligence Service are investigating the extent of his activities.

The State Senate, Trenton, N. J., has passed a bill introduced by Senator Richards, providing that members of the State Board of Pharmacy shall be appointed by the Governor from a list furnished by the New Jersey Pharmaceutical Association.

Fire recently destroyed the plant of the Beaver Manufacturing Company, Essex and Pearson streets, Andover, Mass., manufacturer of chemicals, with loss estimated at about \$80,000. The company was engaged upon important Government contracts at the time of the fire.

The General Chemical Company has declared the usual quarterly dividend of 1½ per cent. on its preferred stock payable April 1 to holders of record March 18. At the annual meeting of the stockholders the retiring directors were re-elected. Subsequently the board organized by re-electing the old officers. Dr. Wm. H. Nichols is chairman of the Board. W. H. Nichols, Jr., is president.

E. J. du Pont de Nemours & Co., have applied to the Federal Trade Board for licenses to use certain blue dyes for which patents were issued to German companies. There are twenty-three applications on file similar to the following: "Patent No. 724789, April 7, 1903, to Rene Bohn, of Mannheim, Germany, assignor to Badische Anilin and Soda Fabrik, of Ludwigshafenon-the-Rhine, Germany, a corporation. Blue dye and process of making same."

The Drug & Chemical Markets

LARGER INQUIRIES, BUT TRADING RESTRICTED

New York Importers Unable to Obtain Supplies— Price Changes are Mainly Upward—Transportation Delays Hamper Drug Deliveries—No Shipping Facilities from Primary Markets

Increased inquiries for drugs and pharmaceutical chemicals are reported in the trade, but sales are restricted owing to short supplies of crude materials and scarcity of fin-

Price advances occurred in American refined and Japanese camphor. Botanical drugs are higher. Golden seal root and St. Vincent arrowroot were advanced. Tinnevelly senna leaves declined. Some price gains for barks were established. Transportation delays make it difficult to replenish stocks. Trading in medicinal gums is slow, but short supplies are keeping prices up.

Seeds and herbs are unsettled. Prospect of replenishing stocks to meet spring and summer requirements are not favorable. It is generally conceded by leading interests that prices will reach high levels. Spices used in the manufacture of drugs and essential oils are scarcer than at any time in sixty years. Numerous grades are out of the market and prices in the near future will be quoted nominal. Nearly all spices are quoted lower here than in the Orient and other primary producing markets, but there are no ships to bring the supplies to this market.

Phenolphthalein and acetphenetidin are lower. Essential oils scored sharp advances particularly for cumin and patchouli. Oil of bergamot was an exception, due to an accumulation of stocks.

Cable advices from Marseilles reported that the French Government had prohibited further exports of foenugreek seed.

PRICE CHANGES IN NEW YORK (Original Packages)

Advanced

Alcohol, Denatured, 2c
Arrowroot, St. Vincent, 3c
Buchu Leaves, Long, Short, 5c
Camphor, Japanese, 10½c
American Refined, 8c
Cassia, China, Selected, 1c
Saigon, 1c
Cloves, Zanzibar, 3c
Gilead Balm, 9c
Golden Seal Root, 50c

Mastic Gum, 4c
Menthol, 5c
Nutmegs, Singapore 110s, 1c
Oil of Cassia, 5c
Cumin, \$1
Patchouli, \$2
Peppermint, 5c
Sodium Bicarbonate, 10c per
100 lbs.

Declined

Acetphenetidin, 25c Oil of Bergamot, 30c Phenolphthalein, \$2.75 Silver Nitrate, 11/6c Senna Leaves, Tinnevelly, 2½c Tamarinds, 20c per keg Tillia Flowers, Without Leaves,

Acetphenetidin—Owing to increased offerings and keener selling competition, prices declined 25c a pound. Sellers are quoting from \$4.75 to \$5.00 a pound.

Alcohol, Denatured—Leading makers advanced quotations 2c a gallon for car-lots. Offerings of spot lots ranged from 73c to 74c a gallon for 180 proof. The rise was attributed to a better demand and further curtailment of stocks.

Arsenic—Trading is inactive, large buyers having ample supplies for several months. White arsenic is offered at 1/4c lower to 16c @ 161/4c a pound for carlots on the spot. Futures are offered at 15c a pound.

Arrow Root—St. Vincent root closed firmer under smallness of supplies and limited spot offerings. Holders in most quarters are quoting 14c @ 15c a pound, showing a gain of 3c a pound over recent sales.

Asafoetida Gum—The trend of the market is firmer due to small arrivals and further diminution of spot supplies. Sellers in some quarters are refusing to accept bids below \$1.65 for lump gum while others are asking \$1.70 a pound.

Bismuth Salts—The market shows a strengthening tendency and in some quarters a rise in prices is predicted, based on lighter stocks and higher costs of production. Spot lots of bismuth citrated are quoted at \$3.30 a pound.

Buchu Leaves—The market has strengthened under a further reduction in spot stocks. Importers are asking 5c advance to \$1.25 @ \$1.30 for short and \$1.40 @ \$1.45 a pound for short leaves on the spot.

Camphor—Offers of refined Japan 2½-pound slabs were cabled at a price equivalent to 87½ c a pound for March-April shipment. The Japanese will make no direct shipments of camphor to London for the next three months. The United States is receiving fairly regular consignments so that British supplies are likely to be drawn from this source. Toward the close of the market American refiners raised prices on domestic refined 8c to the basis of 92½ c a pound for supplies in bulk, barrels added. Japanese camphor was raised 10½ c on the basis of 92½ a pound for 2½-pound slabs.

Codeine—Makers are repeating prices on the bulk basis of \$8.05 a pound for sulphate supplies, cans included

Glycerin, C. P.—The demand is light and a renewal of selling pressure is apparent. Refiners are quoting 67½c in drums and 69c a pound in cans, immediate delivery. For forward deliveries, 67c a pound was named. In the West, producers quoted 66c a pound for chemically pure in drums.

Glycerin, Crude—Prices for spot soap-lye loose are slightly easier and closed ½c lower at 46c @ 46½c a pound while saponification is quoted at 50c @ 51c a pound, showing a gain of 1c a pound. Parcels for February-March shipment were offered at 51c a pound for loose, for the 88 per cent.

Gilead Balm—Curtailment of stocks led to an advance of 9c a pound. Sellers are quoting 60c @ \$1.05 a pound, as to quality.

Golden Seal Root—Prices for whole root scored an advance of 50c a pound, in sympathy with higher primary markets and decreased spot supplies. Holders are naming \$5.30 @ \$5.35 a pound.

Mastic Gum—Scant supplies in primary markets abroad and moderate stocks here caused a firmer sentiment among local importers. Prices were advanced 4c and sellers are quoting 69c @ 80c a pound as to grade.

Menthol—The market closed firmer under a better demand and stronger advices from Japan. Offerings are larger and spot lots were lowered 5c to \$3.25 @ \$3.30 a pound. In some quarters \$3.50 a pound is named.

Mercury—The supply here is light and prices closed firm. Sellers continue to quote a wide margin ranging from \$125@\$135 a flask of 75 pounds. Offerings from the coast, according to reports, are more liberal for immediate shipment at a shade lower.

Morphine—Manufacturers are repeating former prices on the basis of \$12.80 an ounce for sulphate in bulk, 5 ounce cans included. As the crude material remains scarce and firm, lower prices are not expected in the

1918

mer

spot ac-

ning

pre-

of eted

der

sk-

@

abs

for

no

ext

rly

ely

he

10-

in

ed

08.

lk

n-

al

g

1.

i-

e

near future. Second hands are offering supplies at makers' prices. The Persian gum has so much lower morphine content that the output of morphine is more restricted.

Oil of Bergamot—More liberal offerings due to easier primary markets led to a decline of 30c a pound. Sellers are quoting spot lots at \$5.45@\$5.80 a pound as to brand.

Oil of Cassia—Owing to the increased cost of cassias and uncertainties as to arrivals of fresh stocks, prices are likely to go higher. Holders of all grades of cassia oil have raised spot quotations 5c to the basis of \$1.75 @\$1.85 a pound for lead free supplies.

Oil of Clove—Prices rule strong in sympathy with the price of cloves and smallness of supplies of oil. Handlers, however, are naming former quotations of \$3.20 and upward for supplies in tins and \$3.25 for supplies in bottles, as to brand. Cloves are in active demand by pressers and prices are slowly advancing.

Oil of Cumin—Scarcity of seed and a further reduction in the supply of oil caused an advance of \$1 a pound. Handlers in some quarters quoted \$8 while one leading firm named \$9 a pound.

Oil of Patchouli—Lack of raw material and smallness of supplies of oil led to a firmer sentiment among holders. Offerings were raised \$2 to \$26@\$30 a pound, as to brand. The uncertainty regarding further arrivals of crude material is forcing prices upward.

Oil of Wintergreen—Leading interests were firm in their views on prices owing to a further decrease in the spot supply. Offerings are moderate at \$4.25 while in many quarters bids below \$4.50 a pound for true leaf supplies are being rejected.

Opium—Arrivals of the crude material continue light. Importers are quoting U. S. P. granulated and powdered at \$30@\$35. Persian is held at \$27@\$30 a pound. It is reported that larger shipments of gum will be made to the United States, which may improve the situation. Arrivals of opium at Liverpool from January 14 to 19 amounted to 100 cases.

Phenolphthalein—Aggressive selling competition culminated in a decidedly weaker market with a sharp drop of \$2.75 a pound. Offerings were made at \$6.50 while some sellers quoted \$7 a pound.

Quinine—Trading continues inactive particularly among second hands, but prices remain firm at 85c@88c an ounce for spot sulphate stocks. Domestic makers are repeating former quotations of 75c an ounce for sulphate in bulk, covering 100 ounces, tins included. Arrivals at San Francisco from Batavia comprised 265 cases. Advices from London said that Dutch manufacturers are expected in the market for January-February shipment from Holland.

Resorcin—Competition among sellers has led to an irregular market. Prices of U. S. P. supplies ruled nominally unchanged with sellers quoting \$8.50@\$9 a pound.

Saccharin—Price of insoluble guaranteed goods closed steadier under limited supplies for immediate delivery. For delivery within three weeks offerings at \$22@\$22.25 a pound were reported, while scattered small odd lots were held at \$22 a pound for immediate delivery. Some manufacturers, according to reports, are sold up for the next 60 days, and futures were offered at about \$17, while second hands named from \$18@\$21 a pound.

Silver Nitrate—In response to a lower market for silver, quotations for nitrate of silver were lowered 1½c a pound. Offerings were made at 55½c an ounce for lots of 500 ounces and over.

Sodium Benzoate—Increased liquidation of supplies caused a depression. In some quarters the belief prevailed that liquidation had about ended, while others claimed that in order to sustain prices the demand would have to improve materially. Parcels of U. S. P. granulated are quoted at \$4.50@\$4.90 a pound.

Senna Leaves, Tinnevelly—Offerings were larger at 12½c@20c a pound as to quality. Accumulation of supplies was given as the cause of the decline.

Tamarinds—The market was weaker owing to the anxiety of holders to market their stocks. Supplies in kegs were lowered 20c to \$3.70@\$3.80 a keg.

Tin Bichloride—Limited quantities are being offered at 23\%\c@24c a pound, as to size of purchase. The demand is light but prices are firmly maintained owing to the scant supply of tin.

Of Trade Interest

La Compagnie Chimique Canadienne, dealers in drugs, etc., is registered at Montreal.

Cinchona to the amount of 2,797 bales arrived at Liverpool during the period from Dec. 29 to Jan. 5.

The annual election of the Drug and Chemical Club takes place at 100 William street, Thursday, Feb. 21, at one o'clock.

The area devoted to the cultivation of castor beans in Texas this year may exceed 100,000 acres, according to a report from Austin.

Morris Herrmann of the firm of Morris Herrmann & Co., 200 Fifth avenue, manufacturers and dealers in dry colors, died on February 9 of pneumonia.

Collections from the chemical, drug and dyestuffs trades for the United Hospital Fund in New York for 1917 amounted to \$3,842. Leading firms gave from \$25 to \$300 each.

The Montana Chrome Mining Company has been incorporated under the laws of Delaware with a capital stock of \$1,000,000. Incorporators: F. R. Hansell, I. Vernon Pimm, S. C. Seymour, of Philadelphia.

Dr. Strandgard's Medicine Co., Ltd., of Toronto, has been incorporated to manufacture proprietary articles and medicines, with an authorized capital of \$100,000, by Dr. Jean F. Strandgard, Hugh John Macdonald, John Latimer and others.

Jonathan W. Plummer, formerly of Chicago, died recently in Dixon, Ill., at the residence of his son, J. P. Plummer. He was born in Richmond, Ind., where he was epgaged in the wholesale drug business. In 1876 he moved to Chicago where he organized the wholesale drug firm of Morrisson, Plummer & Co., afterwards Plummer & Plummer.

John Clarke & Co. say of herbs and roots: "The market is very active in spot and nearby goods,—the recurring trade needs are large and cover nearly all the articles in the list. For some time past, it has been more and more apparent that unless fresh supplies in most grades should soon appear, there was bound to be serious shortage and resultant violence of fluctuation in spot values. These fresh supplies, excepting in pepper, have not materialized, and the demand from consumers has distinctly broadened again."

Prices Current of Drugs & Chemicals, Heavy Chemicals & Dyestuffs in Original Packages

NOTICE — The prices herein quoted are for large lots in Original Packages as usually Purchased by Manufacturers and Jobbers.

In view of the scarcity of some items subscribers are advised that quotations on such articles are merely nominal, and not always an indication that supplies are to be had at the prices named.

Druge and Chemicale

Acetanilid, C.P., bbls. bulk lb. — — .80 Acetone
Acetone lb. 35 - 36 Acetophenetidin lb. 4.75 - 5.00 Alcohol, 188 proof gal 4.93 190 proof, U.S.P. gal 4.93 Cologne Spirit, 190 proof gal 5.05 Wood, ref. 95 p.c. gal. 1.35 - 1.37 97 p.c. gal. 1.40 - 1.42 Denatured, 180 proof gal 7.4 Aldehyde lb. 1.25 - 1.45 Almonds, bitter lb. 30 - 32 Sweet lb. 23 - 30 Alcohol, 188 proof lb. 30 - 32 Sweet lb. 33 - 30 Alcohol, 188 proof lb. 30 - 32 Sweet lb. 30 - 30 Alcohol, U.S.P., powd lb 80 Aluminum Acetate lb 2.00 Sulphate, C.P. lb 35 Ambergris, black oz. 10.00 - 14.00 Grey oz. 24.00 - 27.00 Ammonium, Acetate, cryst., U.S. P. lb 11.00 Bichromate, C.P. lb 1.20 Bromide, gran., bulk lb7576 Carb.Dom, U.S.kegs, powd lb11 - 12 Resub, Cubes lb 2.15 Iodide lb 4.20 Muriate, C.P. lb 7.00
Acetphenetidin 4 lb. 4.75 — 5.00 *Aconitine, ¼-oz. vials — ea. — — — Agar Agar, No. 1 lb. — 5.7 Alcohol, 188 proof — gal. — 4.93 190 proof, U.S.P. — gal. — 4.95 Cologne Spirit, 190 proof — gal. — 5 65 Wood, ref. 95 p.e. — gal. 1.35 — 1.37 97 p.e. — gal. 1.40 — 1.42 Denatured, 180 proof — gal. — 7.3 188 proof — gal. — 7.4 Aldehyde lb. 1.25 — 1.45 Almonds, bitter lb. 30 — 32 Sweet lb. 22 — 30 Meal lb. 1.25 — 1.45 Aloin, U.S.P., powd lb. 34 — 33 Aloin, U.S.P., powd lb. — 2.20 Sulphate, C.P lb. — 2.20 Sulphate, C.P lb. — 3.5 Ambergris, black oz. 10.00 — 14.00 Grey oz. 24.00 — 27.00 Ammonium, Acetate cryst. lb 85 Benzoate, cryst., U.S.P. lb. — 11.00 Bichromate, C.P lb 85 Bromide, gran., bulk lb 75 — 76 Carb.Dom, U.S.kegs, powd lb 33 Hypophosphite lb. — 2.15 Iodide
*Aconitine, ¼-oz. vials ea
Agar Agar, No. 1
Alcohol, 188 proof. gal. — 4.93 190 proof, U.S.P. gal. — 4.95 Cologne Spirit, 190 proof. gal. — 5.65 Wood, ref. 95 p.e. gal. 1.35 — 1.37 97 p.e. gal. 1.40 — 1.42 Denatured, 180 proof gal. — .74 Aldehyde lb. 1.25 — 1.45 Almonds, bitter lb. 30 — .32 Sweet lb. 22 — .30 Meal lb. 1.25 — 1.45 Almonds, bitter lb. 30 — .32 Sweet lb. 28 — .30 Meal lb34 — .35 Aloin, U.S. P., powd. lb — .80 Alumnum Acetate lb80 — .90 "Metallic lb. — .220 Sulphate, C.P lb. — .35 Ambergris, black oz. 10.00 — 14.00 Grey oz. 24.00 — 27.00 Ammonium, Acetate, cryst. lb80 — .85 Benzoate, cryst. U.S. P. lb. — — 11.00 Bichromate, C. P lb
Cologne Spirit, 190 proof. gal. — 5 05 Wood, ref. 95 pc. gal. 1.35 - 1.37 97 p.c. gal. 1.40 - 1.42 Denatured, 180 proof gal. — .73 188 proof gal. — .74 Aldehyde lb. 1.25 - 1.45 Almonds, bitter lb. 3032 Sweet lb. 2230 Mcal lb. 1b. 3435 Aloin, U. S. P., powd. lb. — .80 Aluminum Acetate lb. — .80 Sulphate, C.P. lb. — .35 Ambergris, black oz. 10.00 - 14.00 Grey oz. 24.00 - 27.00 Ammōnium, Acetate, cryst. lb. 8085 Benzoate, cryst. U. S. P. lb. — .10 Bichromate, C. P. lb80 - 1.20 Bromide, gran., bulk lb7576 Carb.Dom., U.S. kegs, powd lb. 1112 Resub., Cubes lb. — .33 Hypophosphite lb. — .33 Molybdate, Pure lb. — .33 Molybdate, Pure lb. — .45
Denatured, 180 proof gal. —
Denatured, 180 proof gal. —
Aldehyde b. 1.25 — 1.45 Almonds, bitter b. 30 — 32 Sweet b. 28 — 30 Meal 34 — 33 Aloin, U. S. P., powd b. — 20 Metallic b. — 20 Sulphate, C.P b. — 220 Sulphate, C.P b. — 33 Ambergris, black oz. 10.00 — 14.00 Grey oz. 24.00 — 27.00 Ammonium, Acetate, cryst b. 80 — 85 Benzoate, cryst., U. S. P. lb. — 11.00 Bichromate, C. P b. — 1.20 Bromide, gran., bulk b 75 — 76 Carb. Dom., U.S. kegs, powd lb 1 — 12 Resub., Cubes lb. — 2.15 Indoide b. — 2.15 Indoide b. — 2.15 Molybdate, Pure b. — 7.00 Muriate, C. P lb. — 2.45
Almonds, bitter 1b. 30 - 32 Sweet 1b. 22 - 30 Meal 1b. 34 - 35 Aloin, U. S. P., powd 1b. 34 - 35 Aluminum Acetate 1b. 30 - 50 Metallic 1b 220 Sulphate, C.P 1b 35 Ambergris, black 0z. 10.00 - 14.00 Grey 0z. 24.00 - 27.00 Ammonium, Acetate, cryst. 1b. 8085 Benzoate, cryst. U. S. P. 1b 11.00 Bichromate, C. P 1b 11.00 Bromide, gran, bulk 1b7576 Carb. Dom, U.S. kegs, powd 1b. 11 - 12 Resub., Cubes 1b 2.15 Iodide 1b 2.15 Iodide 1b 2.15 Iodide 1b 7.00 Muriate, C. P 1b 7.00 Muriate, C. P 1b 3.45
Aloin, U. S. P., powd ib
Aloin, U. S. P., powd ib
Sulphate, C.P
Sulphate, C.P
Grey Acetate Cryst. December Cryst. December Cryst. December Cryst. December Cryst. December Cryst. December Dece
Grey
Muriate, C. P
Muriate, C. Plb45 Nitrate, cryst., C. Plb2526 Granlb54 Oxalate, Purelb 1.15
Oxalate, Purelb 1.15
Description 11
Persulphatelb 1.25
Phosphate (Dibasic)lb50 — .60 Salicylatelb. 1.60 — 1.63
Amyl Acetate, bulkgal. 5.35 - 5.40
Antimony Chlor. (Sol. butter of
Antimony)
Antimony) 1b1820 Needle powder 1b1415 Sulphate, 16-17 per cent. free sulphur 1b505z
sulphur
Antipyrine, bulk
Apomorphine Hydrochloride .oz31.20
Areca Nuts
Powdered
Argols
Whitelb1616¼
Atropine, Alk. U.S.P.,1-oz. v. oz47.50
Sulphate, U.S.P., 1-oz. v. oz. — -37.50 Balm of Gilead Buds1b60 — 1.05
Barium Carb. prec., purelb
*Chlorate, purelb Bay Rum, Porto Ricogal. 3.35 - 3.50
Bay Rum, Porto Ricogal. 3.35 — 3.50 St. Thomasgal. 3.85 — 4.00
Benzaldehyde (see bitter oil of almonds)
benievi, bee coas rai crudes
Berberine, Sulphate, 1-oz. c.v.oz. 2.50 - 3.00
Beta Naphthol (see Intermediates)
Beta Naphthol (see Intermediates) Bismuth, Citrate U.S.Plb 3.30
Salicylate
Subcarbonate, U.S.Plb 3.25 Subgallatelb 3.25
Subiodide
Subiodide
Valerate
Nominal.

WHERE TO BUY

SODIUM SULPHIDE FUSED & CRYSTALS BORAX - Powdered POTASH ALUM (Iron Free)

ALL BELOW THE MARKET.

CAREX CO. 309 Broadway, N.Y.C.

CHILDRE CO. SUS Broadway, 11.1.C.	U. S. P., 1880lb. Washedlb.
Borax, in bbls., crystalslb0734— .0834 Crystals, U.S.P., Kegslb09 — .09½	Eucalyptollb.
Crystals, U.S.P., Kegslb09091/2	Formaldehydelb.
Bromine, U.S.P., tinslb 1.00	Gelatin, silverlb.
Burgundy Pitch	Glycerin, C. P., bulklb.
Cadmium Bromide cevetale 1h 420 - 425	Glycerin, C. P., bulk
Cadmium Bromide, crystalslb. 4.20 — 4.25 Iodide lb. — — 4.40 Metal sticks lb. 2.00 — 2.05	Drums and bbls, addedlb.
Metal sticks	C.P. in cans
Caffeine, alkaloid, bulklb. 12.50 -12.75	Saponification, looselb.
Hydrobromide	Soap, Lye, loose
Phosphateoz. 15.00 -15.75	Grains of Paradiselb. Guaiacol, liquidlb.
Suipnate	Guaranalb.
Calcium Glycerophosphatelb 2.25 Hypophosphite, 100 lbslb. 1.00 - 1.05	Guaranalb. *Haarlem Oil, bottlesgross
Iodidelb 4.10	Hexamethylenetetraminelb.
Iodide	Hops, N. Y., 1917 prime,1b.
Sulphocarbolate	Pacific Coast, 1917, Prime 1b.
Camphor, Am. ref'd. bbls.bk.lb921/2	Hydrogen Peroxide, U.S.P., 10 gr
Square of 4 ounces lb 931/4	4-oz. bottlesgross 12-oz. bottlesgross 16-oz. bottlesgross
	16-oz. bottlesgross
24's in 1-lb cartonslb961/2 32's in 1-lb. cartonslb97	Hydroquinonelb.
Cases of 100 blocks1b93	Ichthyolib.
24's in 1-lb cartonslb96' ₁ / ₂ 32's in 1-lb. cartonslb97 Cases of 100 blockslb93 Japan, refined, 2½-lb. slabs lb92' ₂ Monobromatedlb. 2.80 - 2.85	Iodine, Resublimedlb.
Monobromated	Crystals
Cantharides, Chinese 1b94 — .98 Powdered 1b. 1.25 — 1.30 Russian 1b. 4.00 — 4.20	Iron Citrate, U.S.Plb.
Russianlb. 4.00 — 4.20	Iodoform, Powdered, bulklb. Crystalslb. Iron Citrate, U.S.Plb. Phosphate, U.S.Plb. Pyrophosphate, U.S.Plb.
Powderedlb. 4.60 — 4.65 Carbon bisulphide, bulklb07½— .08	singlass, American
Casein, C. P	Japaneselb.
Cerium Oxalatelb6061	Russianlb. Kamala, U. S. Plb.
Chalk, prec. light, Englishlb041/2 .043/4	Kola Nuts, Wst Indieslb.
Heavylb033405	Lanolin, hydrous, canslb.
Chloral Hydrate, U.S.P. 25-1b.	Anhydrous, canslb.
jarslb 1.65	Lead Carbonate, medlb.
Charcoal Willow, powderedlb04½ .05 Wood, powderedlb06½ .07½	Chloride
Chlorine, liquid	Licorice, Mass, Syrian1b.
Chloroform, drums	*Sticks, bdls. Coriglianolb.
Chloroform, drums	Lupuiin, U. S. P
Cinchonidin, Alkoz94	Lycopodium, U. S. P1b. Magnesium Carbonate, kegs 1b.
Cinchonine, Alk., crystalsoz51 Sulphateoz35	Agnesium Caronate, kegs lb. Glycerophosphite lb. Bodide lb. Ovide, tins light lb. Peroxide, cans lb. Salicylate lb. Sulphate, Epsom Salts, tech
Cinnabar	Hypophosphitelb.
Civetoz. 2.40 - 2.70	Ovide, tins lightlb.
Cobalt, pow'd (Fly Poison)lb45 — .49 Oleateoz85 — .96	Peroxide, canslb.
Cocaine, alkaloid, 1-oz. voz	Sulphate Ensor Salts tech
Hydrochloride, large ervst.,	100-lbs.
bulk	Manganese Glycerophoslb.
Cocoa Butter, bulklb29 — .30½ Cases, fingerslb30½ .31½	Hypophosphitelb.
	Iodide
Codeine, Alk., Bulk02. — -10.05 Nitrate, Bulk02. — -9.05 Phosphate, Bulk02. — -7.55 Sulphate, Bulk02. — -8.05 Collodion, U.S.P., 1-lb. cans lb45 — .46 Colocynth, Trieste, whole lb26 — .29 Pulp. U.S.P48	Sulphate, crystalslb.
Sulphate Bulkoz. — 7.55	Manna, large flakelb. Small flakelb.
Collodion, U.S.P., 1-lb. cans lb45 — .46 Colocynth, Trieste, wholelb26 — .29	Menthol, Japanese1b.
Colocynth, Trieste, wholelb26 — .29 Pulp, U.S.Plb47 — .48 Spanish Apples	Mercury, flasks, 75 lbsea.12
Spanish Apples	Bisulphatelb.
Copper Chloride, pure cryst, lb70 Oleate, mass, I-oz. jars,	Blue Masslb.
20 p.c	Bisulphate
Corrosive Sublimate ass Maroury	50 p. clb.
Cotton Soluble lb 78 - 100 l	50 p. c
Coumarin, refined	rowdered, Granular
Cream of Tartar, cryst.U.S.P.lb. —	Iodide, Green
Creosote, U.S.P	Vellow 1b.
Cresol, U.S.P	Red Precipitatelb.
Cuttlefish Bones, Triestelb3941	Powderedlb.
	Red Precipitate
Nominal.	*Nominal.

		_	
1			
Cuttlefish Bone, Frenchlb. Dover's Powder, U.S.Plb. Dragon's Blood, Masslb.	2.80	_	.41
Dover's Powder, U.S.Plb.	2.80	-	3.00
Dragon's Blood, Masslb.	.34 3.95	_	.59
Reedslb.	3.95	_	4.05
Emetine, Alk., 15 gr. vials ea.	_	-	2.70
Reeds			
vialsea.	_	-	1.80
I Focom Salte (see Mag Sulph	.)		
Ergot, Russian lb. Spanish lb. Ether, U. S. P., 1900 lb. U. S. P., 1880 lb. Washed lb.	",		-
Ergot, RussianIb.	.77	-	.80
Spanishib.	.//	-	.80
Etner, U. S. P., 1900	_	-	.27
U. S. P., 1880lb.	-	_	.34
Washedlb.		-	.32
Eucalyptollb.	1.34	_	1.39
Formaldehydelb. Gelatin, silverlb.	1.37	_	.21
*Goldlb.	1.3/	_	1.42
Glycerin, C. P., bulklb.	_	_	-
diyeem, C. I., bulk	-		_
Drums and bbls. addedlb.	.67	12-	.68
C.P. in canslb. Dynamite, drums included lb.	.69	-	.69
Dynamite, drums included lb.	.69 .65 .51	_	.66
Saponification, looselb.	.51	-	.51
Saponification, looselb. Soap, Lye, looselb. Grains of Paradiselb.	.46	-	.46
Grains of Paradiselb.	3.20	_	3.25
Guaiacol, liquidlb.	15.00	-	16.00
	.93	_	1.00
Guaranalb. *Haarlem Oil, bottlesgross		-	
Hexamethylenetetramine1b.	1.00		1 10
			1.15
Hops, N. Y., 1917 prime,1b.	.45	_	.50
Pacific Coast, 1917, Prime 1b.	.23	_	.24
Hydrogen Peroxide, U.S.P., 10 gr			
	. lots		
4-oz. bottlesgross	-	_	7.50
12-oz. bottlesgross 16-oz. bottlesgross	_	-	16.50
16-oz. bottlesgross	-	-7	20.00
Hydroquinonelb. Ichthyollb.	2.00	-	2.10
Ichthvol		_	
Todina Pasublimed 1h	4.30		4.40
Iodine, Resublimedlb. Iodoform, Powdered, bulklb. Crystals	7.30	_	7.70
lodoform, Powdered, bulklb.	_	_	5.00
Crystalslb.	_	_	5.55
Iron Citrate, U.S.Plb.	-	-	5.55 .77 .77
7	-	_	.77
Pyrophosphate, U.S.Plb.	=	=	.77
Crystals b. Iron Citrate, U.S.P. b. Phosphate, U.S.P. b. Pyrophosphate, U.S.P. b. singlass, American b.	.79	=	.77
	.79	===	.77 .80 .56
	.46		.77 .80 .56
Japaneselb. Russianlb. Kamala II S P	.79 .46 4.40 2.25		.77 .80 .56
Japaneselb. Russianlb. Kamala II S P	.46 4.40 2.25	111111	.77 .80 .56 5.00 2.30
Japaneselb. Russianlb. Kamala, U. S. Plb. Kola Nuts, Wst Indieslb.	.46 4.40 2.25 .14		.77 .80 .56 5.00 2.30 .15
Japanese b. Russian b. Kamala, U. S. P. b. Kola Nuts, Wst Indies b. Lanolin, hydrous, cans b.	.46 4.40 2.25 .14		.77 .80 .56 5.00 2.30 .15 .39
Japanese Ib. Russian Ib. Kussian Ib. Kamala, U. S. P. Ib. Kola Nuts, Wst Indies Ib. Lanolin, hydrous, cans Ib. Anhydrous, cans Ib. Lanolin, hydrous, hydr	.46 4.40 2.25 .14 .34 .44		.77 .80 .56 5.00 2.30 .15 .39
Japanese b. Russian b. Kamala, U. S. P. b. Kola Nuts, Wst Indies b. Lanolin, hydrous, cans b. Anhydrous, cans b.	.46 4.40 2.25 .14 .34 .44	111111111	.77 .80 .56 5.00 2.30 .15 .39 .49
Japanese b. Russian b. Kamala, U. S. P. b. Kola Nuts, Wst Indies b. Lanolin, hydrous, cans b. Anhydrous, cans b.	.46 4.40 2.25 .14 .34 .44		.77 .80 .56 5.00 2.30 .15 .39 .49
Japanese b. Russian b. Kamala, U. S. P. b. Kola Nuts, Wst Indies b. Lanolin, hydrous, cans b. Anhydrous, cans b.	.46 4.40 2.25 .14 .34 .44 .45 .55		.77 .80 .56 5.00 2.30 .15 .39 .49 .50 .60 2.95
Japanese b. Russian b. Kamala, U. S. P. b. Kola Nuts, Wst Indies b. Lanolin, hydrous, cans b. Anhydrous, cans b.	.46 4.40 2.25 .14 .34 .44 .45 .55		.77 .80 .56 5.00 2.30 .15 .39 .49 .50 .60 2.95
Japanese lb. Kussian lb. Kussian lb. Kamala, U. S. P. lb. Kola Nuts, Wst Indies lb. Lanolin, hydrous, cans lb. Anhydrous, cans lb. Cad Carbonate, med. lb. Chloride lb. Iodide, U.S.P. lb. Licorice, Mass, Syrian lb.	.46 4.40 2.25 .14 .34 .44		.77 .80 .56 5.00 2.30 .15 .39 .49
Japanese lb. Kussian lb. Kussian lb. Kamala, U. S. P. lb. Kola Nuts, Wst Indies lb. Lanolin, hydrous, cans lb. Anhydrous, cans lb. Cad Carbonate, med. lb. Chloride lb. Iodide, U.S.P. lb. Licorice, Mass, Syrian lb.	.46 4.40 2.25 .14 .34 .44 .45 .55 - .25 .49		.77 .80 .56 5.00 2.30 .15 .39 .49 .50 .60 2.95
Japanese lb. Kussian lb. Kussian lb. Kamala, U. S. P. lb. Kola Nuts, Wst Indies lb. Lanolin, hydrous, cans lb. Anhydrous, cans lb. Cad Carbonate, med. lb. Chloride lb. Iodide, U.S.P. lb. Licorice, Mass, Syrian lb.	.46 4.40 2.25 .14 .34 .44 .45 .55 - .25 .49 2.50		.77 .80 .56 5.00 2.30 .15 .39 .49 .50 .60 2.95 .29 .54 3.00
Japanese lb. Kussian lb. Kussian lb. Kamala, U. S. P. lb. Kola Nuts, Wst Indies lb. Lanolin, hydrous, cans lb. Anhydrous, cans lb. Cad Carbonate, med. lb. Chloride lb. Iodide, U.S.P. lb. Licorice, Mass, Syrian lb.	.46 4.40 2.25 .14 .34 .44 .45 .55 -25 .49 2.50 1,80		.77 .80 .56 5.00 2.36 .15 .39 .49 .50 .60 2.95 .29 .54 3.00 1.85
Japanese lb. Kussian lb. Kussian lb. Kamala, U. S. P. lb. Kola Nuts, Wst Indies lb. Lanolin, hydrous, cans lb. Anhydrous, cans lb. Cad Carbonate, med. lb. Chloride lb. Iodide, U.S.P. lb. Licorice, Mass, Syrian lb.	.46 4.40 2.25 .14 .34 .44 .45 .55 - .25 .49 2.50		.77 .80 .56 5.00 2.30 .15 .39 .49 .50 .60 2.95 .29 .54 3.00 1.85
Japanese lb. Kussian lb. Kussian lb. Kamala, U. S. P. lb. Kola Nuts, Wst Indies lb. Lanolin, hydrous, cans lb. Anhydrous, cans lb. Cad Carbonate, med. lb. Chloride lb. Iodide, U.S.P. lb. Licorice, Mass, Syrian lb.	.46 4.40 2.25 .14 .34 .44 .45 .55 - .25 .49 2.50 1.80		.77 .80 .56 .50 .2.30 .15 .39 .49 .50 .60 .2.95 .54 .3.00 .54 .3.00 .54 .54 .54 .54 .54 .54 .54 .54 .54 .54
Japanese lb. Kussian lb. Kussian lb. Kamala, U. S. P. lb. Kola Nuts, Wst Indies lb. Lanolin, hydrous, cans lb. Anhydrous, cans lb. Cad Carbonate, med. lb. Chloride lb. Iodide, U.S.P. lb. Licorice, Mass, Syrian lb.	.46 4.40 2.25 .14 .34 .44 .45 .55 -25 .49 2.50 1,80		.77 .80 .56 5.00 .2.30 .15 .39 .49 .50 .60 .2.95 .29 .54 .3.00 .1.85 .21 .4.60 .2.15
Japanese lb. Kussian lb. Kussian lb. Kamala, U. S. P. lb. Kola Nuts, Wst Indies lb. Lanolin, hydrous, cans lb. Anhydrous, cans lb. Cad Carbonate, med. lb. Chloride lb. Iodide, U.S.P. lb. Licorice, Mass, Syrian lb.	.46 4.40 2.25 .14 .34 .44 .45 .55 - .25 .49 2.50 1.80		.77 .80 .56 .50 .2.35 .15 .39 .49 .50 .60 .2.95 .54 .3.00 .1.85 .21 .4.60 .2.15
Japanese lb. Kussian lb. Kussian lb. Kussian lb. Kamala, U. S. P. lb. Kola Nuts, Wst Indies lb. Lanolin, hydrous, cans lb. Anhydrous, cans lb. Cad Carbonate, med. lb. Chloride lb. Iodide, U.S.P. lb. Licorice, Mass, Syrian lb.	.46 4.40 2.25 .14 .34 .44 .45 .55 - .25 .49 2.50 1.80		.77 .80 .56 .50 .2.35 .15 .39 .49 .50 .60 .2.95 .54 .3.00 .1.85 .21 .4.60 .2.15
Japanese lb. Kussian lb. Kussian lb. Kussian lb. Kamala, U. S. P. lb. Kola Nuts, Wst Indies lb. Lanolin, hydrous, cans lb. Anhydrous, cans lb. Cad Carbonate, med. lb. Chloride lb. Iodide, U.S.P. lb. Licorice, Mass, Syrian lb.	.46 4.40 2.25 .14 .34 .44 .45 .55 .25 .49 2.50 1.80 .17 		.77 .80 .56 .50 .2.35 .39 .49 .50 .60 .2.95 .54 .3.00 .1.85 .21 .2.15 .4.60 .2.15 .4.60 .2.15 .4.60 .2.15 .2
Japanese lb. Kussian lb. Kussian lb. Kussian lb. Kamala, U. S. P. lb. Kola Nuts, Wst Indies lb. Lanolin, hydrous, cans lb. Anhydrous, cans lb. Cad Carbonate, med. lb. Chloride lb. Iodide, U.S.P. lb. Licorice, Mass, Syrian lb.	.46 4.40 2.25 .14 .34 .44 .45 .55 - .25 .49 2.50 1.80 .17		.77 .80 .56 .50 .2.35 .15 .39 .49 .50 .60 .2.95 .54 .3.00 .1.85 .21 .4.60 .2.15
Japanese lb. Kussian lb. Kussian lb. Kussian lb. Kamala, U. S. P. lb. Kola Nuts, Wst Indies lb. Lanolin, hydrous, cans lb. Anhydrous, cans lb. Cad Carbonate, med. lb. Chloride lb. Iodide, U.S.P. lb. Licorice, Mass, Syrian lb.	.46 4.40 2.25 .14 .34 .44 .45 .55 .49 2.50 1.80 .17 2.00		.77 .80 .56 .500 .2.30 .15 .39 .49 .50 .60 .2.95 .54 .3.00 .1.85 .21 .4.60 .2.15 .4.85 .1.10 .2.15 .4.85 .1.10
Japanese lb. Russian lb. Kussian lb. Kussian lb. Kola Nuts, Wst Indies lb. Kola Nuts, Wst Indies lb. Lanolin, hydrous, cans lb. Lanolin, hydrous, cans lb. Lonolice, hydrous, cans lb. Lindide, U.S.P. lb. Licorice, Mass, Syrian lb. Licorice, Mass, Syrian lb. "Sticks, bdls. Corigliano lb. Lupulin, U. S. P. lb. Lycopodium, U. S. P. lb. Magnesium Carbonate, kegs lb. Glycerophosphate lb. Glycerophosphate lb. Lodide lb. Oride, tins light lb. Peroxide, cans lb. Salicylate lb. Suliphate, Epsom Salts, tech 100-lbs.	.46 4.40 2.25 .14 .34 .45 .55 -25 .49 2.50 1.80 -17 -2.00 -130 3.25		.77 .80 .56 .5.00 .15 .39 .49 .50 .60 .2.95 .29 .54 .3.00 .1.85 .21 .4.60 .2.15 .4.85 .2.15 .4.85 .2.15 .4.85 .2.15 .4.85 .2.15 .4.85 .2.15 .4.85 .2.15 .4.85 .2.15 .4.85 .2.15 .4.85 .2.15 .4.85 .2.15 .4.85 .2.15 .4.85 .2.15 .4.85 .2.15 .4.85 .2.15 .4.85 .2.15 .4.85 .2.15 .4.85 .2.15 .4.85 .50 .4.85 .50 .4.85 .4.85 .4.85 .4.85 .4.85 .4.85 .4.85 .4.85 .4.85 .4.85 .5
Japanese	.46 4.40 2.25 .14 .34 .45 .55 -25 .49 2.50 1.80 -17 2.00 -130 3.25 4.50		.77 .80 .56 .50 .50 .50 .50 .60 .60 .60 .2.95 .54 .50 .60 .60 .51 .51 .52 .53 .54 .54 .54 .54 .54 .54 .54 .54 .54 .54
Japanese 1b. Russian 1b. Kussian 1b. Kussian 1b. Kola Nuts, Wst Indies 1b. Lanolin, hydrous, cans 1b. Lanolin, hydrous, cans 1b. Lanolin, hydrous, cans 1b. Londied 1b. Chloride 1b. Licorice, Mass, Syrian 1b. Licorice, Mass, Syrian 1b. "Sticks, bdls. Corigliano 1b. Lupulin, U. S. P. 1b. Lycopodium, U. S. P. 1b. Magnesium Carbonate, kegs 1b. Glycerophosphate 1b. Glycerophosphate 1b. Lodide 1b. Covide, tins light 1b. Peroxide, cans 1b. Salicylate 1b. Sulphate, Epsom Salts, tech 100-lbs. Manganese Glycerophos 1b. Hypophosphite 1b. Hypophosphite 1b. Sulphate, Epsom Salts, tech 100-lbs. Manganese Glycerophos 1b. Hypophosphite 1b. Hypophosphite 1b. Hypophosphite 1b. Hypophosphite 1b. Hypophosphite 1b. Sulphate, Epsom Salts, tech 100-lbs. Manganese Glycerophos 1b. Hypophosphite	.46 4.40 2.25 .14 .34 .45 .55 -25 .49 2.50 1.80 -17 -2.00 -130 3.25		.77 .80 .56 .50 .50 .50 .39 .49 .50 .60 .2.95 .54 .3.30 .2.15 .3.30 .2.15 .3.49 .50 .60 .2.25 .5.4 .5.4 .5.4 .5.5 .5.5 .5.5 .5.
Japanese 1b. Russian 1b. Kussian 1b. Kussian 1b. Kola Nuts, Wst Indies 1b. Lanolin, hydrous, cans 1b. Lanolin, hydrous, cans 1b. Lanolin, hydrous, cans 1b. Londied 1b. Chloride 1b. Licorice, Mass, Syrian 1b. Licorice, Mass, Syrian 1b. "Sticks, bdls. Corigliano 1b. Lupulin, U. S. P. 1b. Lycopodium, U. S. P. 1b. Magnesium Carbonate, kegs 1b. Glycerophosphate 1b. Glycerophosphate 1b. Lodide 1b. Covide, tins light 1b. Peroxide, cans 1b. Salicylate 1b. Sulphate, Epsom Salts, tech 100-lbs. Manganese Glycerophos 1b. Hypophosphite 1b. Hypophosphite 1b. Sulphate, Epsom Salts, tech 100-lbs. Manganese Glycerophos 1b. Hypophosphite 1b. Hypophosphite 1b. Hypophosphite 1b. Hypophosphite 1b. Hypophosphite 1b. Sulphate, Epsom Salts, tech 100-lbs. Manganese Glycerophos 1b. Hypophosphite	.46 4.40 2.25 .14 .34 .44 .45 .53 .25 .49 2.50 1.80 .17 .200 		.77 .80 .56 .56 .50 .50 .50 .60 .60 .60 .2.95 .54 .50 .60 .2.95 .54 .51 .85 .1.10 .2.15 .4.60 .2.15 .4.60 .2.15 .4.60 .2.15 .4.60 .2.15 .4.60 .2.15 .4.60 .2.15 .4.60 .2.15 .4.60 .2.15 .4.60 .2.15 .4.60 .40 .40 .40 .40 .40 .40 .40 .40 .40 .4
Japanese 1b. Russian 1b. Kussian 1b. Kussian 1b. Kola Nuts, Wst Indies 1b. Lanolin, hydrous, cans 1b. Lanolin, hydrous, cans 1b. Lanolin, hydrous, cans 1b. Londied 1b. Chloride 1b. Licorice, Mass, Syrian 1b. Licorice, Mass, Syrian 1b. "Sticks, bdls. Corigliano 1b. Lupulin, U. S. P. 1b. Lycopodium, U. S. P. 1b. Magnesium Carbonate, kegs 1b. Glycerophosphate 1b. Glycerophosphate 1b. Lodide 1b. Covide, tins light 1b. Peroxide, cans 1b. Salicylate 1b. Sulphate, Epsom Salts, tech 100-lbs. Manganese Glycerophos 1b. Hypophosphite 1b. Hypophosphite 1b. Sulphate, Epsom Salts, tech 100-lbs. Manganese Glycerophos 1b. Hypophosphite 1b. Hypophosphite 1b. Hypophosphite 1b. Hypophosphite 1b. Hypophosphite 1b. Sulphate, Epsom Salts, tech 100-lbs. Manganese Glycerophos 1b. Hypophosphite	.46 4.40 2.25 .14 .34 .44 .45 .55 .25 .49 2.50 1.80 .17 2.00 		.77 .80 .56 .56 .50 .50 .50 .60 .60 .60 .2.95 .54 .50 .60 .2.95 .54 .51 .85 .1.10 .2.15 .4.60 .2.15 .4.60 .2.15 .4.60 .2.15 .4.60 .2.15 .4.60 .2.15 .4.60 .2.15 .4.60 .2.15 .4.60 .2.15 .4.60 .2.15 .4.60 .40 .40 .40 .40 .40 .40 .40 .40 .40 .4
Japanese Ib. Russian Ib. Kussian Ib. Kussian Ib. Kola Nuts, Wst Indies Ib. Lanolin, hydrous, cans Ib. Anhydrous, cans Ib. Anhydrous, cans Ib. Lead Carbonate, med Ib. Chloride Ib. Licorice, Mass, Syrian Ib. Sticks, bdls. Corigliano Ib. Lupulin, U. S. P. Ib. Lupulin, U. S. P. Ib. Lycopodium, U. S. P. Ib. Magnesium Carbonate, kegs Ib. Glycerophosphate Ib. Hypophosphite Ib. Dodide Ib. Ovide, tins light Ib. Peroxide, cans Ib. Salicylate Ib. Sulphate, Epsom Salts, tech Ib. Hypophosphite Ib. Iodide Ib. Ordide Ib. Peroxide Ib. Sulphate, crystals Ib. Sulphate, crystals Ib. Sulphate, crystals Ib.	.46 4.40 2.25 .14 .34 .44 .45 .55 .29 2.50 1.80 1.7 2.00 -1.30 3.25 4.50 1.65 -78 .62		.77 .80 5.56 5.00 2.30 .15 .39 .49 .50 2.95 .54 .31 .20 2.95 .21 1.85 .21 1.10 2.15 1.37 1.46 2.15 1.37 1.47 1.46 1.46 1.46 1.46 1.46 1.46 1.46 1.46
Japanese Ib. Russian Ib. Kussian Ib. Kussian Ib. Kola Nuts, Wst Indies Ib. Lanolin, hydrous, cans Ib. Anhydrous, cans Ib. Anhydrous, cans Ib. Lead Carbonate, med Ib. Chloride Ib. Licorice, Mass, Syrian Ib. Sticks, bdls. Corigliano Ib. Lupulin, U. S. P. Ib. Lupulin, U. S. P. Ib. Lycopodium, U. S. P. Ib. Magnesium Carbonate, kegs Ib. Glycerophosphate Ib. Hypophosphite Ib. Dodide Ib. Ovide, tins light Ib. Peroxide, cans Ib. Salicylate Ib. Sulphate, Epsom Salts, tech Ib. Hypophosphite Ib. Iodide Ib. Ordide Ib. Peroxide Ib. Sulphate, crystals Ib. Sulphate, crystals Ib. Sulphate, crystals Ib.	.46 4.40 2.25 .14 .34 .44 .45 .55 .29 2.50 1.80 1.7 2.00 -1.30 3.25 4.50 1.65 -78 .62		.77 .80 .56 .56 .230 .15 .39 .50 .295 .29 .54 .3.00 .2.15 .21 .4.60 .2.15 .4.60 .2.15 .4.60 .2.15 .4.70 .4.7
Japanese lb. Russian lb. Kussian lb. Kamala, U. S. P. lb. Kola Nuts, Wst Indies lb. Lanolin, hydrous, cans lb. Lanolin, hydrous, cans lb. Lanolin, hydrous, cans lb. Lead Carbonate, med. lb. Chloride lb. Licorice, Mass, Syrian lb. Licorice, Mass, Syrian lb. Licorice, Mass, Syrian lb. Lycopodium, U. S. P. lb. Lycopodium, U. S. P. lb. Lycopodium, U. S. P. lb. Magnesium Carbonate, kegs lb. Glycerophosphate lb. Golde lb. Covide, tins light lb. Peroxide, cans lb. Salicylate lb. Sulphate, Epsom Salts, tech 100-lbs. Manganese Glycerophos lb. Hypophosphite lb. Lodide lb. Covide lb. Sulphate, crystals lb. Small flake lb.	.46 4.40 2.25 .14 .34 .44 .45 .55 .49 2.50 1.80 		.77 .80 5.56 5.00 2.30 .15 .39 .49 .50 2.95 .54 .31 .20 2.95 .21 1.85 .21 1.10 2.15 1.37 1.46 2.15 1.37 1.47 1.46 1.46 1.46 1.46 1.46 1.46 1.46 1.46
Japanese lb. Russian lb. Kussian lb. Kamala, U. S. P. lb. Kola Nuts, Wst Indies lb. Lanolin, hydrous, cans lb. Lanolin, hydrous, cans lb. Lanolin, hydrous, cans lb. Lead Carbonate, med. lb. Chloride lb. Licorice, Mass, Syrian lb. Licorice, Mass, Syrian lb. Licorice, Mass, Syrian lb. Lycopodium, U. S. P. lb. Lycopodium, U. S. P. lb. Lycopodium, U. S. P. lb. Magnesium Carbonate, kegs lb. Glycerophosphate lb. Golde lb. Covide, tins light lb. Peroxide, cans lb. Salicylate lb. Sulphate, Epsom Salts, tech 100-lbs. Manganese Glycerophos lb. Hypophosphite lb. Lodide lb. Covide lb. Sulphate, crystals lb. Small flake lb.	.46 4.40 2.25 .14 .34 .44 .45 .55 .49 2.50 1.80 		.77 .80 .56 .56 .230 .15 .39 .50 .295 .29 .54 .3.00 .2.15 .21 .4.60 .2.15 .4.60 .2.15 .4.60 .2.15 .4.70 .4.7
Japanese lb. Kussian lb. Kussian lb. Kussian lb. Kussian lb. Kola Nuts, Wst Indies lb. Kola Nuts, Wst Indies lb. Kola Nuts, Wst Indies lb. Anhydrous, cans lb. Lanolin, hydrous, cans lb. Lanolin, hydrous, cans lb. Lead Carbonate, med. lb. Lodice, Carbonate, lb. Licorice, Mass, Syrian lb. Licorice, Mass, Syrian lb. "Sticks, bdls. Corigliano lb. Lupulin, U. S. P. lb. Lycopodium, U. S. P. lb. Lycopodium, U. S. P. lb. Lycopodium, U. S. P. lb. Glycerophosphate Hypophosphite lb. Glycerophosphate lb. Ovide, tins light lb. Peroxide, cans lb. Salicylate Spom Salts, tech 100-lbs. Manganese Glycerophos lb. Hypophosphite lb. Hypophosphite lb. Hypophosphite lb. Glycerophosphate lb. Sulphate, Epsom Salts, tech 100-lbs. Manganese Glycerophos lb. Hypophosphite lb. Sulphate, crystals lb. Manna, large flake lb. Small flake lb. Small flake lb. Small flake lb. Menthol, Japanese lb.	.464.40 2.255.144.344.4445.555.259.2550.1.80 2.500.1.177.200.000.1.1300.3.254.550.905.662.905.3.255		.77 .80 .56 .55 .50 .23 .39 .49 .50 .60 .295 .29 .295 .21 .21 .21 .21 .21 .21 .21 .21 .21 .21
Japanese lb. Kussian lb. Kussian lb. Kamala, U. S. P. lb. Kola Nuts, Wst Indies lb. Kola Nuts, Wst Indies lb. Kola Nuts, Wst Indies lb. Anhydrous, cans lb. Lanolin, hydrous, cans lb. Lead Carbonate, med. lb. Chloride lb. Licorice, Mass, Syrian lb. Licorice, Mass, Syrian lb. Licorice, Mass, Syrian lb. "Sticks, bdls. Corigliano lb. Lupulin, U. S. P. lb. Lycopodium, U. S. P. lb. Magnesium Carbonate, kegs lb. Glycerophosphate Hypophosphite lb. Ovide, tins light lb. Peroxide, cans lb. Sulphate, Epsom Salts, tech 100-lbs. Manganese Glycerophos lb. Hypophosphite lb. Jodide lb. Jodide lb. Sulphate, Epsom Salts, tech loolide lb. Sulphate, crystals lb. Sulphate, crystals lb. Small flake lb. Small flake lb. Small flake lb. Small flake lb. Mercury, flasks, 75 lbs. eea. Id. Mercury, flasks, 75 lbs. eea. Id.	.464.40 2.255.144.344.4445.555.259.2550.1.80 2.500.1.177.200.000.1.1300.3.254.550.1.655.0.90.3.255.3.25		.77 .56 .56 .500 .15 .39 .50 .60 .2.95 .54 .54 .50 .54 .54 .50 .54 .51 .51 .51 .52 .54 .54 .54 .54 .54 .54 .54 .54 .54 .54
Japanese 1b. Russian 1b. Russian 1b. Russian 1b. Kola Nuts, Wst Indies 1b. Lanolin, hydrous, cans 1b. Lanolin, hydrous, cans 1b. Lanolin, hydrous, cans 1b. Londied 1b. Chloride 1b. Locarice, Mass, Syrian 1b. Licorice, Mass, Syrian 1b. Licorice, Mass, Syrian 1b. Lyopodium, U. S. P. 1b. Lyopodium, U. S. P. 1b. Lyopodium, U. S. P. 1b. Magnesium Carbonate, kegs 1b. Glycerophosphate 1b. Glyderophosphate 1b. Bodide 1b. Ovide, tins light 1b. Peroxide, cans 1b. Sulphate, Epsom Salts, tech 100-lbs. Manganese Glycerophos 1b. Hypophosphite 1b. Jodide 1b. Jodide 1b. Jodide 1b. Peroxide 1b. Sulphate, crystals 1b. Small flake 1b. Small flake 1b. Small flake 1b. Manna, large flake 1b. Menthol, Japanese 1b. Mercury, flasks, 75 1bs. ea.1 1b. Mercury, flasks, 75 1bs. ea.1 1b. Mercury, flasks, 75 1bs. ea.1 1b. Bisulphate 1b.	.464.40 2.255.144.344.4445.555.259.2550.1.80 2.500.1.177.200.000.1.1300.3.254.550.1.655.0.90.3.255.3.25		.77 .566 .500 .15 .39 .50 .60 .295 .215 .215 .485 .211.37 .350 .470 .470 .485 .775 .68 .95 .775 .68
Japanese 1b. Kussian 1b. Kussian 1b. Kussian 1b. Kola Nuts, Wst Indies 1b. Kola Nuts, Wst Indies 1b. Anhydrous, cans 1b. Lanolin, hydrous, cans 1b. Lanolin, hydrous, cans 1b. Chloride 1b. Licorice, Mass, Syrian 1b. Licorice, Mass, Syrian 1b. Licorice, Mass, Syrian 1b. Lycopodium, U. S. P. 1b. Lycopodium, U. S. P. 1b. Lycopodium, U. S. P. 1b. Magnesium Carbonate, kegs 1b. Glycerophosphate 1b. Glycerophosphate 1b. Ovide, tins light 1b. Salicylate 1b. Salicylate 1b. Salicylate, cans 1b. Salicylate, Epsom Salts, tech 100-lbs. Manganese Glycerophos 1b. Hypophosphite 1b. Jodide 1b. Sulphate, Epsom Salts, tech 100-lbs. Manganese Glycerophos 1b. Hypophosphite 1b. Sulphate, crystals 1b. Small flake 1b. Menthol, Japanese 1b. Mercury, flasks, 75 1bs. ea.12 1b. Blue Mercury, flasks, 75 1bs. ea.12 1bs. ea.12	.464.40 2.255.144.344.4445.555.259.2550.1.80 2.500.1.177.200.000.1.1300.3.254.550.1.655.0.90.3.255.3.25		.77 .56 .50 .50 .50 .50 .60 .60 .50 .54 .50 .54 .50 .54 .50 .54 .50 .54 .50 .54 .54 .54 .54 .54 .54 .54 .54 .54 .54
Japanese 1b. Kussian 1b. Kussian 1b. Kussian 1b. Kola Nuts, Wst Indies 1b. Kola Nuts, Wst Indies 1b. Anhydrous, cans 1b. Lanolin, hydrous, cans 1b. Lanolin, hydrous, cans 1b. Chloride 1b. Licorice, Mass, Syrian 1b. Licorice, Mass, Syrian 1b. Licorice, Mass, Syrian 1b. Lycopodium, U. S. P. 1b. Lycopodium, U. S. P. 1b. Lycopodium, U. S. P. 1b. Magnesium Carbonate, kegs 1b. Glycerophosphate 1b. Glycerophosphate 1b. Ovide, tins light 1b. Salicylate 1b. Salicylate 1b. Salicylate, cans 1b. Salicylate, Epsom Salts, tech 100-lbs. Manganese Glycerophos 1b. Hypophosphite 1b. Jodide 1b. Sulphate, Epsom Salts, tech 100-lbs. Manganese Glycerophos 1b. Hypophosphite 1b. Sulphate, crystals 1b. Small flake 1b. Menthol, Japanese 1b. Mercury, flasks, 75 1bs. ea.12 1b. Blue Mercury, flasks, 75 1bs. ea.12 1bs. ea.12	.464.40 2.255.144.344.4445.555.259.2550.1.80 2.500.1.177.200.000.1.1300.3.254.550.1.655.0.90.3.255.3.25		.77 .56 .50 .50 .50 .50 .60 .60 .50 .54 .50 .54 .50 .54 .50 .54 .50 .54 .50 .54 .54 .54 .54 .54 .54 .54 .54 .54 .54
Japanese 1b. Kussian 1b. Kussian 1b. Kussian 1b. Kola Nuts, Wst Indies 1b. Kola Nuts, Wst Indies 1b. Anhydrous, cans 1b. Lanolin, hydrous, cans 1b. Lanolin, hydrous, cans 1b. Chloride 1b. Licorice, Mass, Syrian 1b. Licorice, Mass, Syrian 1b. Licorice, Mass, Syrian 1b. Lycopodium, U. S. P. 1b. Lycopodium, U. S. P. 1b. Lycopodium, U. S. P. 1b. Magnesium Carbonate, kegs 1b. Glycerophosphate 1b. Glycerophosphate 1b. Ovide, tins light 1b. Salicylate 1b. Salicylate 1b. Salicylate, cans 1b. Salicylate, Epsom Salts, tech 100-lbs. Manganese Glycerophos 1b. Hypophosphite 1b. Jodide 1b. Sulphate, Epsom Salts, tech 100-lbs. Manganese Glycerophos 1b. Hypophosphite 1b. Sulphate, crystals 1b. Small flake 1b. Menthol, Japanese 1b. Mercury, flasks, 75 1bs. ea.12 1b. Blue Mercury, flasks, 75 1bs. ea.12 1bs. ea.12	.464.40 2.255.144.344.4445.555.259.2550.1.80 2.500.1.177.200.000.1.1300.3.254.550.1.655.0.90.3.255.3.25		.77 .566 .500 .15 .39 .50 .60 .60 .54 .3.00 .54 .51 .52 .54 .53 .54 .50 .54 .51 .52 .54 .53 .54 .54 .55 .56 .56 .56 .57 .57 .57 .57 .57 .57 .57 .57 .57 .57
Japanese 1b. Kussian 1b. Kussian 1b. Kussian 1b. Kola Nuts, Wst Indies 1b. Kola Nuts, Wst Indies 1b. Anhydrous, cans 1b. Lanolin, hydrous, cans 1b. Lanolin, hydrous, cans 1b. Chloride 1b. Licorice, Mass, Syrian 1b. Licorice, Mass, Syrian 1b. Licorice, Mass, Syrian 1b. Lycopodium, U. S. P. 1b. Lycopodium, U. S. P. 1b. Lycopodium, U. S. P. 1b. Magnesium Carbonate, kegs 1b. Glycerophosphate 1b. Glycerophosphate 1b. Ovide, tins light 1b. Peroxide, cans 1b. Salicylate 1b. Salicylate 1b. Sulphate, Epsom Salts, tech 100-lbs. Manganese Glycerophos 1b. Hypophosphite 1b. Jodide 1b. Sulphate, Epsom Salts, tech 100-lbs. Manganese Glycerophos 1b. Hypophosphite 1b. Sulphate, crystals 1b. Small flake 1b. Menthol, Japanese 1b. Mercury, flasks, 75 1bs. ea.12 1b. Blue Mercury, flasks, 75 1bs.	.464.40 2.255.144.344.4445.555.259.2550.1.80 2.500.1.177.200.000.1.1300.3.254.550.1.655.0.90.3.255.3.25		.77 .56 .500 .500 .500 .39 .49 .500 .2.95 .29 .500 .2.95 .29 .500 .2.15 .21 .21 .2.15 .2.1
Japanese 1b. Kussian 1b. Kussian 1b. Kussian 1b. Kola Nuts, Wst Indies 1b. Kola Nuts, Wst Indies 1b. Anhydrous, cans 1b. Lanolin, hydrous, cans 1b. Lanolin, hydrous, cans 1b. Chloride 1b. Licorice, Mass, Syrian 1b. Licorice, Mass, Syrian 1b. Licorice, Mass, Syrian 1b. Lycopodium, U. S. P. 1b. Lycopodium, U. S. P. 1b. Lycopodium, U. S. P. 1b. Magnesium Carbonate, kegs 1b. Glycerophosphate 1b. Glycerophosphate 1b. Ovide, tins light 1b. Peroxide, cans 1b. Salicylate 1b. Salicylate 1b. Sulphate, Epsom Salts, tech 100-lbs. Manganese Glycerophos 1b. Hypophosphite 1b. Jodide 1b. Sulphate, Epsom Salts, tech 100-lbs. Manganese Glycerophos 1b. Hypophosphite 1b. Sulphate, crystals 1b. Small flake 1b. Menthol, Japanese 1b. Mercury, flasks, 75 1bs. ea.12 1b. Blue Mercury, flasks, 75 1bs.	.464.40 2.255.144.344.4445.555.259.2550.1.80 2.500.1.177.200.000.1.1300.3.254.550.1.655.0.90.3.255.3.25		.77 .80 .56 .500 .2.30 .49 .500 .2.95 .29 .295 .295 .205 .205 .205 .205 .205 .205 .205 .20
Japanese 1b. Russian 1b. Russian 1b. Russian 1b. Kola Nuts, Wst Indies 1b. Lanolin, hydrous, cans 1b. Anhydrous, cans 1b. Anhydrous, cans 1b. Lead Carbonate, med 1b. Chloride 1b. Locarice, Mass, Syrian 1b. Licorice, Mass, Syrian 1b. Licorice, Mass, Syrian 1b. "Sticks, bdls. Corigliano 1b. Lupulin, U. S. P. 1b. Lycopodium, U. S. P. 1b. Lycopodium, U. S. P. 1b. Magnesium Carbonate, kegs 1b. Glycerophosphate 1b. Hodide 1b. Dovide, tins light 1b. Peroxide, cans 1b. Sulphate, Epsom Salts, tech 1b. Sulphate, Epsom Salts, tech 1b. Jodide 1b. Sulphate, Epsom Salts, tech 1b. Jodide 1b. Sulphate, Epsom Salts, tech 1b. Jodide 1b. Sulphate, crystals 1b. Small flake 1b. Small flake 1b. Menthol, Japanese 1b. Mercury, flasks, 75 lbs ea. If. Bisulphate 1b. Blue Mass 1b. Powdered 1b. Blue Ointment, 30 p. c. 1b. Calomel, American 1b. Corrosive Sublimate cryst. 1b. Carosive Carosive Carosive Carosive Carosi	.464.40 2.255.144.344.4445.555.259.2550.1.80 2.500.1.177.200.000.1.1300.3.254.550.1.655.0.90.3.255.3.25		.77 .80 .56 .500 .2.30 .49 .500 .2.95 .29 .295 .295 .205 .205 .205 .205 .205 .205 .205 .20
Japanese lib. Kussian lb. Kussian lb. Kussian lb. Kussian lb. Kola Nuts, Wst Indies lb. Kola Nuts, Wst Indies lb. Kola Nuts, Wst Indies lb. Anhydrous, cans lb. Lanolin, hydrous, cans lb. Lanolin, hydrous, cans lb. Lead Carbonate, med. lb. Chloride lb. Licorice, Mass, Syrian lb. Licorice, Mass, Syrian lb. "Sticks, bdls. Corigliano lb. Lupulin, U. S. P. lb. Magnesium Carbonate, kegs lb. Glycerophosphate Hypophosphite lb. Glycerophosphate lb. Ovide, tins light lb. Salicylate lb. Salicylate lb. Salicylate lb. Salicylate lb. Salicylate lb. Hypophosphite lb. Salicylate lb. Hypophosphite lb. Sulphate, crystals lb. Manna, large flake lb. Small flake lb. Bliue Ointment, 30 p. c. lb. 50 p. c. lb. 50 p. c. lb. Colomel, American lb. Corrosive Sulimate cryst, lb. Powdered, Granular lb.	.464.40 2.255.144.344.4445.555.259.2550.1.80 2.500.1.177.200.000.1.1300.3.254.550.1.655.0.90.3.255.3.25		.77 .80 .56 .50 .50 .50 .50 .50 .50 .50 .50 .50 .50
Japanese 1b. Russian 1b. Russian 1b. Russian 1b. Kola Nuts, Wst Indies 1b. Kola Nuts, Wst Indies 1b. Kola Nuts, Wst Indies 1b. Anhydrous, cans 1b. Lanolin, hydrous, cans 1b. Anhydrous, cans 1b. Londie, hydrous, cans 1b. Lothoride 1b. Lothoride 1b. Lothoride 1b. Lothoride 1b. Colide 1c. Correspondium, U. S. P. 1b. Lycopodium, U. S. P. 1b. Lycopodium, U. S. P. 1b. Magnesium Carbonate, kegs 1b. Glycerophosphate 1b. Hypophosphite 1b. Lothoride 1b. Lothoride 1b. Lothoride 1b. Lothoride 1b. Lothoride 1b. Salicylate 1b. Sulphate, Epsom Salts, tech 100 lbs. Manganese Glycerophos 1b. Hypophosphite 1b. Jodide 1b. Sulphate, Epsom Salts, tech 100 lbs. Manganese Glycerophos 1b. Hypophosphite 1b. Jodide 1b. Sulphate, crystals 1b. Menthol, Japanese 1b. Mercury, flasks, 75 lbs. ea. L. Bisulphate 1b. Blue Mass 1b. Mercury, flasks, 75 lbs. ea. L. Bisulphate 1b. Blue Mass 1b. Powdered 1b. Blue Ointment, 30 p. c. 1b. Corrosive Sublimate cryst. 1b. Powdered, Granular 1b. Lodide Green 1	.464.40 2.255.144.344.4445.555.259.2550.1.80 2.500.1.177.200.000.1.1300.3.254.550.1.655.0.90.3.255.3.25		.77 .80 .60 .2.95
Japanese 1b. Russian 1b. Russian 1b. Russian 1b. Kola Nuts, Wst Indies 1b. Kola Nuts, Wst Indies 1b. Kola Nuts, Wst Indies 1b. Anhydrous, cans 1b. Lanolin, hydrous, cans 1b. Anhydrous, cans 1b. Londie, hydrous, cans 1b. Lothoride 1b. Lothoride 1b. Lothoride 1b. Lothoride 1b. Colide 1c. Correspondium, U. S. P. 1b. Lycopodium, U. S. P. 1b. Lycopodium, U. S. P. 1b. Magnesium Carbonate, kegs 1b. Glycerophosphate 1b. Hypophosphite 1b. Lothoride 1b. Lothoride 1b. Lothoride 1b. Lothoride 1b. Lothoride 1b. Salicylate 1b. Sulphate, Epsom Salts, tech 100 lbs. Manganese Glycerophos 1b. Hypophosphite 1b. Jodide 1b. Sulphate, Epsom Salts, tech 100 lbs. Manganese Glycerophos 1b. Hypophosphite 1b. Jodide 1b. Sulphate, crystals 1b. Menthol, Japanese 1b. Mercury, flasks, 75 lbs. ea. L. Bisulphate 1b. Blue Mass 1b. Mercury, flasks, 75 lbs. ea. L. Bisulphate 1b. Blue Mass 1b. Powdered 1b. Blue Ointment, 30 p. c. 1b. Corrosive Sublimate cryst. 1b. Powdered, Granular 1b. Lodide Green 1	.464.40 2.255.144.344.4445.555.259.2550.1.80 2.500.1.177.200.000.1.1300.3.254.550.1.655.0.90.3.255.3.25		.77 .80 .56 .500 .2.30 .49 .50 .54 .54 .54 .55 .21 .54 .55 .21 .54 .55 .21 .55 .55 .21 .1.70 .56 .57 .77 .56 .57 .77 .56 .57 .77 .56 .57 .77 .56 .57 .77 .56 .57 .77 .56 .57 .77 .56 .57 .77 .57 .57 .57 .57 .57 .57 .57 .57
Japanese 1b. Russian 1b. Russian 1b. Russian 1b. Kola Nuts, Wst Indies 1b. Kola Nuts, Wst Indies 1b. Kola Nuts, Wst Indies 1b. Anhydrous, cans 1b. Lanolin, hydrous, cans 1b. Anhydrous, cans 1b. Londie, hydrous, cans 1b. Lothoride 1b. Lothoride 1b. Lothoride 1b. Lothoride 1b. Colide 1c. Correspondium, U. S. P. 1b. Lycopodium, U. S. P. 1b. Lycopodium, U. S. P. 1b. Magnesium Carbonate, kegs 1b. Glycerophosphate 1b. Hypophosphite 1b. Lothoride 1b. Lothoride 1b. Lothoride 1b. Lothoride 1b. Lothoride 1b. Salicylate 1b. Sulphate, Epsom Salts, tech 100 lbs. Manganese Glycerophos 1b. Hypophosphite 1b. Jodide 1b. Sulphate, Epsom Salts, tech 100 lbs. Manganese Glycerophos 1b. Hypophosphite 1b. Jodide 1b. Sulphate, crystals 1b. Menthol, Japanese 1b. Mercury, flasks, 75 lbs. ea. L. Bisulphate 1b. Blue Mass 1b. Mercury, flasks, 75 lbs. ea. L. Bisulphate 1b. Blue Mass 1b. Powdered 1b. Blue Ointment, 30 p. c. 1b. Corrosive Sublimate cryst. 1b. Powdered, Granular 1b. Lodide Green 1	.464.40 2.255.144.344.4445.555.259.2550.1.80 2.500.1.177.200.000.1.1300.3.254.550.905.662.905.3.255		.77 .80 .56 .500 .2.30 .49 .50 .54 .54 .54 .55 .21 .54 .55 .21 .54 .55 .21 .55 .55 .21 .1.70 .56 .57 .77 .56 .57 .77 .56 .57 .77 .56 .57 .77 .56 .57 .77 .56 .57 .77 .56 .57 .77 .56 .57 .77 .57 .57 .57 .57 .57 .57 .57 .57
Japanese lib. Kussian lb. Kussian lb. Kussian lb. Kussian lb. Kola Nuts, Wst Indies lb. Kola Nuts, Wst Indies lb. Kola Nuts, Wst Indies lb. Anhydrous, cans lb. Lanolin, hydrous, cans lb. Lanolin, hydrous, cans lb. Lead Carbonate, med. lb. Chloride lb. Licorice, Mass, Syrian lb. Licorice, Mass, Syrian lb. "Sticks, bdls. Corigliano lb. Lupulin, U. S. P. lb. Magnesium Carbonate, kegs lb. Glycerophosphate Hypophosphite lb. Glycerophosphate lb. Ovide, tins light lb. Salicylate lb. Salicylate lb. Salicylate lb. Salicylate lb. Salicylate lb. Hypophosphite lb. Salicylate lb. Hypophosphite lb. Sulphate, crystals lb. Manna, large flake lb. Small flake lb. Bliue Ointment, 30 p. c. lb. 50 p. c. lb. 50 p. c. lb. Colomel, American lb. Corrosive Sulimate cryst, lb. Powdered, Granular lb.	.464.40 2.255.144.344.4445.555.259.2550.1.80 2.500.1.177.200.000.1.1300.3.254.550.905.662.905.3.255		.77 .80 .60 .2.95

- 1.80

- .80 - .80 - .34 - .32 - .1.39 - .1.42 - .68 - .69% - .69% - .66% - .51% - .66% - .51% - .66% - .51% -

Drugs & Chemicals, Heavy Chemicals and Dyestuffs in Original Packages Methylene Blue, medicinal ...lb. 12.00 -14.00 WHERE TO BUY WHERE TO BUY

y	Brugs & Chemicals, Hea	1
S	Methylene Blue, medicinallb. 12.00 -14.00 Milk, powdered	Ì
	Mirbane Oil, refined 1	I
_		l
3.00	Sulphate, bulk	
.59 4.05	cans	
2.70	Ethyl, Hydrochloride,1-oz.v.oz. — —15.90 Moss, Iceland ——18.05	
.80	Moss, Iceland	1
80	Irish	
80 80 27 44 2	Tonquin0z. 10.00 —10.50 Grain Cab0z. 20.00 —20.25	S
4	Tonguin0z. 18.75 —19.00	Sic
2	Synthetic	
	Naphthalene, See Coal T - 12.75	-
	Sulphate Ib 22	0
		C
6	Powdered	CHI
	Jobbing lots -30.00	P
	Granulas	
- 1	Oxgall, pur II C D	50
- 1		21
- 1		
	Petrolatum light - 1	1
	Cream	Po
- 1	Snow White	d
1	. 12% Sa	1
	Phosphorus, yellow	c. e
	Pilocarpine, Alk 10 - 1.70 - 1.80 Sul	п
I P	Piperin	r
P	etassium acetate Sulph	10
	Bicarb. 1.45 - 1.50 Sulph	u
1	C. P Flow	V
1 1	Bromide (bulk green)	2
Ò	Litrate, bulk lb. 1.35 — 1.36 Tartar lycerophosphate, bulk oz. — 1.45 Cartar lypophosphate	
I. P.	odide, bulkoz. 2.15 - 2.20 Thymo actophosphateoz. 0.2 - 3.75 Iodid	I,
Sa		i
Ta	irtrate, powdered	.,
Quin	rtrate, powdered	i
25-0	02. tins	i
1-02	z. tins	;,
*An	nsterdam Witch I	
*Ge:	rman0z bbi	
Quini	dine Alk. crystals, tipe or	· i
Resort	mate time	
Rochel	lle Salt crystals 1	c,
Saccha	dered, bbls	r
U.S.I	Insoluble1b. 25.00 -27.00	
Salicin	hulls 22.00 - 23.00	_
Sandaly	rood 1.65 C	1
Santoni	dlb. — — Glacial, Glacia	C
Pow	dered U.S.Plb. 36.40 -37.50 Benzoic, f	
Pomd	ny, resin	t.
Seidlitz	Misses Powdered	
	stile stile - 5514 Camphoric	
Marseil	lles, white, purelb3841 Carbolic, cr	r
Ordin	, purelb17 — .19½ 1-lb. bott	tl
*Nominal	1b17 — .18 5-1b. bott 50 to 100. Chrysophanic	
	Nominal.	:

	- HERE TO BUY	1
	Antoine Chiris Company	1
-	MANUFACTUREDS & VANCEY.	1
I	ESSENTIAL OILS	1
I	ACETYL SALICY CHEMICALS	I
	American Works, Delawanna, New Jersey	L

0.50	Works, Delawanna, New Jersey
0.25	Soap, Castile Mant
2.00	Ordinary, Mottled, pure lb151 Sodium, Acetate U.S.P
.75	
.75	Bicarb. U.S.P., powd bble 1b. 4.50 - 4.90
1	Bromide, U.S.P., bulklb02½
22	Dominde, U.S.P., bulk 1b, 65 - 66
29	Granular, U.S.P
13	Glyserophosphate, crystals. lb. 2.65 - 2.70 Hypophosphite, U.S.Plb. 1.10 - 1.15
18	Hypophosphite, U.S.Plb. 2.65 - 2.70 Iodide, bulklb. 1.10 - 1.15
n	Tosphate, U.S.P. gran
o l	Recrystalized
0	
0	Salicylate, U.S.P
5 5	Tungstate
S	pirit Ammonia. II S PIb27 - 28
)	pirit Ammonia, U. S. Plb
	Nitrous Ether, U. S. P 1b4750
St	Ether Complb4849 orax, liquid caseslb 1.65
St.	rontium Bromide, bulklb. 3.60 - 4.60 didde, bulklb7576
1 1	odide, bulk
5 S	Salicylate. II S.P
Str	vohning Assert Control 1 25
i S	10 10 10 10 10 10 10 10
Sug	ar of Milk, powderedoz 2.05
Sul	phonal, 100 oz. lotslb50
Sult	phonethylmethane, U.S.P. lb. 1500 -1500
Sulp	ohur, bbls. roll 12.95 -13 00
FI	ounr100 lbs. 3.70 - 4.00
Tam	arinda
Ke	gs
Tarta	ar Emetic, U.S.P per keg 3.70 - 3.80
_ (asks
Terpi	in Hydratelb60½— .61
Iodi	ide, U.S.P., bulklb. 15.50 — 16.00 C
Oxio	de, 500 lb. bblslb2334— .25 C. See Coal Tar Coudes
Toluol	l. See Coal Tar Crudes.
	ntine, Venice, Truelb. 3.65 - 3.75
Artit	ficial
	ts, see Naval Stores1213 Cu
anii fi	In
	Fer Ext., dble diet
ine C	arbonategal. 1.18 - 1.23 B
Chlori	ide
lodide	e, bulklb16 — .17 Gin Gin lie C Blb. — -4.00 Hen
Oxide,	
_	
	A cids Lave
	L Ga
etic e	l Am
lacia 1	6 p.c
tul a	99 p.c. carboyslb11121/2 Lime

Carbolic, cryst., U.S.P., drs. 1b. 4.35 — 4.45 1-1b. bottles	
Acetyl-salicylic carboys .lb. 3434— 36 *Benzoic, from gum .lb. — — — — — — — — — — — — — — — — — — —	Acetic, 56 p.c
*Benzoic, from gum 1b. 2.75 3.00 ex. Toluol 1b. - 6.00 Boric, cryst., bbls. 1b. 13½ 15 Boric, cryst., bbls. 1b. 13½ 15 Butyric, Tech., 60 p.c. 1b. 1.45 1.55 Camphorie 1b. 4.35 4.45 Carbolic, cryst., U.S.P., drs. 1b. 54 55 5-1b. bottles 1b. 57 58 50 to 100-lb. tins 1b. 55 56 hrysophanic 1b. 55 56	Acetyl and 99 p.c. carboys 1b 242/
Boric, cryst., bbls 1b. Powdered, bbls 1b. 13½- 15 Butyric, Tech., 60 p.c. 1b. 1.45 Camphoric 1b. 4.35 Carbolic, cryst., U.S.P., drs. 1b. 54 1-lb. bottles 1b. 60 5-lb. bottles 1b. 57	*Benzoic from
Powdered, bbls. 1b. 13½ 115 Butyric, Tech., 60 p.c. 1b. 1.45 1.55 Camphorie 1b. 4.35 4.45 Carbolic, cryst., U.S.P., drs. 1b. 54 55 1-lb. bottles 1b. 57 58 5-lb. bottles 1b. 57 58 50 to 100-lb. tins 1b. 55 56 hrysophanic 1b. 55 56	
Butyric, Tech., 60 p.c. bb. 1.435 - 1.55 Camphorie bb. 4.45 - 1.55 Carbolic, cryst., U.S.P., drs. lb. 54 - 55 5-lb, bottles bb. 57 - 58 50 to 100-lb, tins bb. 55 - 56 hysophanic bb. 55 - 56 bb. 55 bb. 55 - 58 bb. 50 to 100-lb, tins bb. 55 - 56 bb. 55 bb. 55 - 58 bb. 56 bb. 57 - 58 bb. 58 - 56 bb. 58 - 58	
Camphorie bb. 1.45 - 1.55 Carbolic, cryst., U.S.P., drs lb5455 1-lb. bottles lb6061 50 to 100-lb. tins lb5758 1-lb. bottles lb5061 50 to 100-lb. tins lb5556 1-lb. 5556	
Carbolic, cryst., U.S.P., drs. lb. 4.35 — 4.45 1-lb. bottles lb. 60 — .61 5-lb. bottles lb. 57 — .58 50 to 100-lb. tins lb. 55 — .56 1-lb. bottles lb. 55 — .56 1-lb. 5	
5-lb. bottleslb60 — .61 50 to 100-lb. tinslb55 — .56 1 hrysophaniclb55 — .56 1	Carbolic, cryst 11 c.p
50 to 100-lb. tinslb57 — .58 Chrysophanielb55 — .56	
hrysophanielb5556	50 to 100 lb
Nominal. 6.20 - 6.35 P	hrysophanic
	vominal. 15. 6.20 - 6.35

-		Tomages
_	Citric, crystals, bbls Powdered Cresylic, 95-100 p.c	lb75 — .7514
	Cresylic, 95-100 p.c Chromic, U.S.P	10751/276
	Chromic, U.S.P.	gal. 1.10 - 1.15
	*Formio 75	lb. 1.25 - 1 90
	Formic, 75 p.c., tech	lb4045
	U.vcerophoent	ID. 155 160
S	Hydriodia	145 F.00
2	Hydrobromie, Conc. Hydrocyanic, U.S.P.	oz2530
D	Hydrocyania Tron	ID. 2.40 - 2.45
-	Dilute 3 nc	lb35 - 40
= 1		
- 1.	II & D 10 p.C	D. 205 210
- 1	Lactic II C P	67
13	Molybdic, C.P.	··· 1b. 2.40 - 2.45
15	Muriatic, 20 deg, carbove	··· 1b. 6.90 — 7.40
15	Molybdic, C.P. VIII Muriatic, 20 deg. carboys. Nitric, 42 deg. carboys. Nitro Muriatic	.02140314
16	Nitro Muriatic Oleic, purified	.15091/2 .093/4
	Picrie Cryst.,, bbls.	.lb2328 .lb46 - 50
P	Oxalic, cryst., bbls. Picric, kegs Phosphoric, U. S. P	.lb46 — .50 .lb85 — 1.00
P	vrogallie, U. S. P.	.lb6575
1	Crystale best	.10. 3.15 - 2.20
P	yroligneous andic	.lb. 3.00 - 3.10
1	Technical Pulled	1b oc
Sa	alicylic, bulk, U.S.P	ral121214
St	tearic, triple pressed	lb90 - 1.35
Su	ulphuric, C.P.	1b25 — .27
Tu	liphurous	lb07 — .08
Ta	annic, U.S.P., bulk	1003 — .05
14	annic, U.S.P., bulk artaric Crystals, U.S.P.	b. 1.33 — 1.40
F	Powdered, U.S.P.	.7080
=		b771/279

Essential Oils

4.60	Essential Oils
.76 3.50	A1
.29	Almond, bitter
.29 1.30	Free from chlorine traceslb. 4.50 - 500
2.35	Amber, crude lb. 4.75 - 5.00 Rectified lb. 1.45 - 1.50 Anise lb. 1.75 - 1.85
2.35	
05	Anise
.50	Anise lb. 1.75 - 1.85 Bay lb. 1.05 - 1.15 Bergamot lb. 2.40 - 2.60 Synthetic lb. 5.00 - 5.80 Synthetic lb. 3.50 - 4.50 Cade lb. 4.50 - 4.75 Cade
.50	Synthetic
.00	Bois de Rose
95 00	Cal de Kose
15 6	amphor bottle, Native, cs lb. 75 - 1.10
50 08½ C	Japanese, white lb. 15 - 16 Japanese, white lb. 17 - 18 Jaraway lb. 17 - 18 Jaraway lb. 18 8.00 - 8.25 Lead Free lb. 1.70 - 1.75 Redistilled, U.S.P. lb. 1.75 - 1.85 cdar Leaf lb 2.25 edar Wood lb. 18 1.75 - 1.25
081/2 0	Japanese, white
80 0	assia, 75-80 p.c. tech
1	Lead Free
o IC	edar Leaf U.S.Plb 235
C	edar Wood
Ci	nnamon, Cevlon bears
Ci	tronella, Ceylon, drums 1b. 22.00 -24.00
Ci	oves
	Bottles
Co	paiba
Co	Japanese, white Jb. 17 -16 Jaraway Jb. 17 -18 Jaraway Jb. 10 -17 -18 Jassia, 75-80 p.c. tech lb. 1.0 -1.25 Lead Free lb. -1.25 -1.8 -1.9 Lead Free lb. -1.25 -2.25 Edar Wood lb. 18 -19 Innamon, Ceylon, heavy lb. 22.00 -24.00 Java Ceylon, drums lb. 52 -54 Java Joe -5 -77 Bottles lb. 3.30 -3.35 paiba lb. 3.30 -3.35 paiba lb. 10 -1.10 bebs lb. 2.20 -23.00
Eri	min
Euc	calyptus, Australianlb. 1.75 - 2.00
Fen	geron lb. 8.00 - 9.00 lb. 1.75 - 2.00 lb. 1.75 - 2.00 lb. 1.75 - 2.00 lb. 1.75 - 4.00 lb. 1.75 l
B	anium, rose, African lb. 6.00 - 7.00 ourbon lb. 5.40 - 5.45 lb. 5.40 - 4.60 ger lb. 5.40 - 4.60
Ti	arkish
Ging	ger
Hom	Rergrass
Tuni	nocklb. 120 - 2.10
1	Twice rect1b. 15.00 -16.00
. Wo	oodlb. 16.00 -17.00
Lave	refgrass 10, 8.00 - 8.50
Gar	ke
Lemo	rden
Lemo	ngrass
Limes	Expressed
T:- 1	nder Flowers 10. 2.00 - 2.50
Musta	distilled
Arti	ficial
Neroli	bigarade
Art	ificial
Vutme	distilled 1b. 2.85 - 3.00 rd, natural 1b. 2.25 - 2.50 ficial 1b. 30.00 - 32.00 pigarade 1b. 60.00 - 75.00 le 1b. 80.00 - 90.00 sificial 1b. 80.00 - 25.00 la 1b. 1b. 20.00 - 25.00
range	bitter, W. Indian 15. 2.25 - 2.50
Sweet	t, West Indianlb. 1.90 - 2.00
rrie	
riganu	Concreati
atchor	m, sweet
ennven	wa!
mport	tedlb. 1.65 - 1.80

Drugs & Chemicals, Heavy Chemicals and Dyestuffs in Original Packages

Peppermint, tinslb. 3.30 - 3.4	Reavy Chemicals and Dyestuffs in Original Packages
Bulk B. 3.25 3.38 Petit Grain, So. America B. 3.50 3.46 French B. 2.70 3.06 French B. 2.70 3.06 Pimento B. 2.70 3.06 Pimento B. 2.70 2.85 Pimento B. 2.70 2.85 Rose, natural 0.2 2.35 2.30 Synthetic 0.2 2.35 2.30 Synthetic 0.2 2.35 2.30 Synthetic 0.2 2.35 2.30 Safrol B. 4.0 4.5 Sassafras, natural B. 1.0 11.25 Artificial B. 2.30 Spearmint B. 2.8 2.20 Spearmint B. 3.50 3.75 Spearmint B. 1.00 1.25 Tansy B. 3.00 3.75 Thyme, red, French B. 1.60 1.75 White, French B. 1.60 1.75 White, French B. 4.25 4.50 Wine, Ethereal, light B. 2.30 2.50 Wormseed B. 9.0 9.25 Wormseed B. 4.25 4.50 Wormseed B. 4.25 4.50 Ylang Ylang, Bourbon B. 4.25 4.50 Manila B. 3.50 0.400 Artificial B. 3.50 0.400 Artificial B. 1.50 0.500 Cubeb B. 4.50 5.50 Cubeb Capsicum, I-lb. bottles B. 4.50 5.50 Cubeb Cubeb B. 4.50 5.50 Parsley Fruit (Petroselinum) B. 6.75 7.50 Pundent B. 4.00 5.00 Imported B. 4.00 5.00 Imported B. 4.00 5.00 Imported B. 4.00 5.00 Imported B. 4.00 5.00 Summary 1.00 1.00 1.00 Summary 1.0	Wild Cherry 1b11 15 Witch Hare 1b04 05
Crude Drugs BALSAMS	Dogwood 1b. 31 - 32 Lobelia 1b. 46 - 49
South American 1b	*Powd. Flowers and stems b. 34 - 38 Powd. Flowers b. 45 - 50 Flowers b. 45 - 40 Flowers b. 40 - 41 Flowers b. 40 - 41

2.25 2.25 2.25 2.20 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00

Drugs & Chemicals, Heavy Chemicals and Dyestuffs in Original Packages

Decision Decision	Blueflaglb. Bryonialb.	.39 — .50	Celerylb.	3.45 - 3.60	Heavy Chemicals
Colinium 1.5	Americanlb.	.1619		.54 — .59	Acetic acid, 28 p.c
Colinium 1.5	Calamus, bleachedlb.	1.40 - 2.90	Bleached, Domesticlb.	.1734— .18	56 p.c
December 1985 1986 198	Cohosh, black	.15 — .18		.179413	80 p.c
Complex			Maltalb.	.171/218	Alum, ammonia, lumplb041/4041/4
Selection December December	Colembo, wholelb.	.16 — .20	Moroccolb.	.161/2 .163/4	Powdered
German, mail	Culver'slb.	.1516	Dilllb.	.21211/2	Chromelb21221/2
Section Sect	Cranesbill see Geranium. Dandelion. English	.4042	*German, smalllb.		Ground
Echinaces	Americanlb.	.35 — .38	Flax, wholeper bbl.	14.00 -14.25	Soda, Ground100 lbs 0.38
Second 1.5 1	Cut	.2832	Foenugreeklb.	.07/208	
December December	Echinacealb. Elecampanelb.		Domesticlb.	.10101/2	Low grade
Powdered	Galangallb.		*Russianlb.		Ammonia Water, 26 deg., car lb061/2 .071/2
Dobelia Dobe					18 deg., carboys
Bicached b. 34	Powderedlb.	.18 — .20	Lobelialb.	.2114231/2	Ammonium chloride, U.S.PIb1921
California, brown b. 16 1669 1670 1680	Ginger, Jamaica, unbleached 1b.	.1822		.15 — .1514	Granulated, whitelb15416
Southern			California, brownlb.		Lump
Carman, yellow D. 1794 1795 1806 1807	Wild, Easternlb.	10.00 -12.00	Dutch, yellowlb.	.161/4 .171/2	Domestic
Perfect December	Southernlb. 1	12.00 - 15.00	*German, yellowlb.		65 p. c
Reliciore, Black	Powdered	3./3 - 0.00		.1734— .191/2	Blanc Fixe
Producted 15	Hellebore, Black	1.25 — 1.35 26 — 29	Russian, bluelb.		Barium, chlorideton 70.00 -90.00
Japanese	Powderedlb.	.24 — .26	Rape, English		Nitratelb111/212
Powdered 15			Japaneselb.	.09½— .11½	Barytes, floated, whiteton 30.00 -35.00 Off color
Jalap, whole	Powderedlb.	3.00 — 3.05	*Strophanthus, Hispiduslb.	1.65 - 1.70	Bleaching powder, 35 p.c1b021/203
Small	Jalap, wholelb.	.48 — .51		.061/4 .063/8	Carbideton 70.00 -73.00
Second color 19	Kava Kavalb.	.171/219	Smalllb.	.06061/8	Chloride, solid, f.o.b. N.Y. ton 28.00 -30.00
Spanish natural bales b. 239	*Lady Slipperlb. Licorice, Russian, cutlb.	.80 — .90	Levantlb.	.5964	Solid, second handston 30.00 —34.00
Darage American	Spanish natural, baleslb.	.171/2181/2		231/ 24	Gran. second handston 40.00 —45.00 Sulphate. 98-99 p.c
Mandarake 1.1		.19 — .23	China, Selected, cslb.		Carbon tetrachloridelb15½16
Mark Ressian		.2527			Subacetate (Verdigris)lb4042
Finger 1b 15 200 Pareira Brava 1b 5 200 Pareira Brava 1b 100 Pareira Brava Brava 1b 100 Pareira Brava 1b 100 Pareira Brava 1b 100 Pareira Brava			Japanlb.	.111/212	Sulphate, 98-99 p.c
Pringer 10	Orris, Florentine, boldlb.	.2021	Chilies, Japanlb.	.131/215	
Pallitory 1.	Finger1b.	1.95 - 2.00			Fusel Oil, crudegal. 205 - 2.75
Pieurisy 10 21 22 22 20 20 20 20	Pareira Bravalb. Pellitorylb.		Cloves, Amboynalb.	.52 — .53	Hydrofluoric, 30 p.c. in bbls. lb05
Poke	Pink, truelb.				48 p. c. in carboyslb09
Rhubarb Shensi	Pokelb.	.04041/2	Cochin	11921	Lead Acetate brown sugar, .lb124134
High Dried bb. 26	Rhubarb Shensi1b.	.74 — .79	Unbleachedlb.	.161/2 .22	Broken Cakes
Batavia, No. 2 b. 46 -47 American b. 20 -22 Mexican b. 20 -22 Mexican b. 50 -52 Mutanes, 110s b. 58 -65 Senega, Northern b. 78 -83 Southern b. 90 -95 Sepentaria b. 45 -50 Shunk Cabbage b. 15 18 Peper, black, Sing. b. 23 -24 White b. 20 -244 Standard b. 34 -33 Stripped b. 40 -46 Spikenard b. 34 -33 Stripped b. 40 -46 Spikenard b. 30 -40 Yellow, crude b. 33 -40 Yellow, crude b. 33 -40 Yellow, crude b. 43 -45 Sing. b. 40 Yellow, crude b. 44 -46 Stillingia b. 10 -074 No. 1 b. 70 -75 No. 2 b. 61 -63 No. 2 -63 No	High Driedb.		Japanlb.		Arsenate, powderedlb3134
Senga, Northern 1b. 78 83 Southern 1b. 90 95 95 95 95 95 95 95	Sarsaparilla, Honduraslb.		Batavia, No. 2lb.	.46. — .47	
Sependaria 1b. 90 95 95 Sependaria 1b. 45 50 Sunk Cabbage 1b. 15 18 White 1b. 231/2 231/2	Mexicanlb.	.58 — .65	Paprika, Hungarianlb.	.27 — .28	Oxide, Litharge, Amer. pd. lb09%09% Red. American
Skunk Cabbage 1b			Pepper, black, Sing,lb.	.231/2 .24	Foreignlb
*Snake, Black	Serpentarialb.	.45 — .50	Pimentolb.		dry
Squill, white 15 16 15 16	*Snake, Blacklb.	.34 — .35			English
Squill, white 15 16 15 16	Strippedlb.	.4046	Bees, whitelb.		Magnesite, f.ob. Cal1b. 42.00 -44.00
Carnamy African B. 12 - 14 Carnamba B. Carnamba B. Carnamba B. Carnamba B. Carnamba Carnamba Carnamba	Squill, whitelb.		Yellow, refinedlb.	.4446	Muriatic acid,
Turneric, Aleppy 1b. 1074	Stillingiath.	.1214		.70 — .75	18 deg. carboyslb02 — .02½ 20 deg. carboyslb02¼— .03½
True (Aletris) bb. 40 - 43 White bb. 18 - 20 42 deg. carboys bb. 0.994 - 10%	Turmeric, Aleppylb.	.10%11	No. 1lb.	.7174	22 deg carboys
True (Aletris) bb. 40 - 43 White bb. 18 - 20 42 deg. carboys bb. 0.994 - 10%	Madraslb.	.08340934	No. 3lb.	.53 — .55	38 deg. carboys
*English 1b.	True (Aletris)	.40 — .43	White	.18 — .20	42 deg carboys
*Japanese lb.	*Englishlb.				Aqua Fortis, 36 deg. carb.lb0514
Refined white 1b. 80 85 170 180 1.75 2.00			Substitutelb.		40 deg. carboys
SEEDS See Domestic D. 88 90 See Domestic D. 88 90 See See	Yellow Docklb.	.11 — .14	*Greenlb.	.85 — .95	
*Anise, Levant 1b. 23½ 24 Spanish 1b. 23½ 24 Star 1b. 31 32 Star 1b. 31 32 Star 25 Star	Yellow Parillalb.	.09 — .11	*Domesticlb.	.8085	True Dentalbbl. 1.75 - 2.00
Star lb. 31 32 Stearic Acid— Powdered lb. 41 - 42 Caraway, African lb. 56½ 57 Single pressed lb. 22½ 23 Muriate, basis80p.c.perton ton350.00 -375.00 Double pressed lb. 23½ 24 Prussiate, red lb. 2.25 2-260 *Dutch lb Triple pressed lb. 25 27 Yellow lb. 1.25 -1.30			Refined, yellowlb.	.70 — .80	Potash Caustic, 88-92
Caraway, African lb56½—.57 Single pressed lb22½—.23 Muriate, basissop.c.perton tonosum—375.00 *Dutch lb. ——— Triple pressed lb225—.27 Yellow lb. 1.25—1.30	Spanishlb.	.231/2 .24	Foreign, 130 deg. m.plb.	.14141/2	Chlorate, crystlb411/2421/6
Caraway, Arrican 1b. 505/2- 57 Double pressed 1b. 231/2- 24 Prussiate, red 1b. 2.25 - 2.60 *Dutch 1b Triple pressed 1b. 25 - 27 Yellow 1b. 1.25 - 1.30	Starlb.		Single pressedlb.	.221/2 .23	Muriate, basis80p.c.perton ton350.00 -375.00
Cardamoms, bleachedlb75 — 1.10 Naminal. *Nominal.	*Dutchlb.		Double pressedlb. Triple pressedlb.	.231/2 .24	Yellowlb. 1.25 - 1.30
	Cardamoms, bleached	.75 — 1.10	Nominal.		Nominal,

Drugs & Chemicals, Heavy Chemicals and Dyestuffs in Original Packages

itpetre, Granulated	WHERE TO BUY	Sulphur Black E.S. standard lb90 -
Itpetre, Granulated	D D DDDIII A CO I	Sulphur Black E.S. standard lb90 — Sulphur Black 100 p.clb. 1.25 — Sulphur Black, 150 p.clb. 1.50 —
In bbls100 lbs. 3.25 — 4.00	E. F. DREW & CO., Inc.	Suiphur Blue
Caustic, dom., 75 p.c100 lbs. 5.50 — 6.25	50 BROAD ST. NEW YORK	Sulphur Blue-Black
100 lbs. 8.10 — 8.40	Aniline Dyestuffs	Sulphur Brown Chestnutlb50 — Sulphur Greenlb. 1.60 — Sulphur Yellowlb. 1.80 —
odium Bichromatelb. Nominal	Dyewood Extracts	Sulphur Yellowlb. 1.80 — Tartrazine, Domesticlb60 —
Bisulphate	Industrial Oils	Tartrazine, Imported
niorate	industrial Ons	Wool Orange
Cyanide	Chemicals	Victoria Blue, base
Kegs	Resorcin, crystals, U.S.Plb. 9.50 -10.00	Victoria Green lb 13.00 -1
Nitrate, tech100 lbs. 4.40 — 4.50 Refined	Resorcin, Technical1b. 6.00 - 6.25	Victoria Yellowlb. 6.75 -
Viteita 1h 34 _ 35	Tetranitromethylanilinelb 2 50	Victoria Red
Prussiate, Yellow	o-Toluidinelb. 1.00 - 1.10	NATURAL DYESTUFFS
Silicate, 40 p.c100 lbs. 2.25 - 2.75	p-Toluidine	Annatto, fine
Sulphi., Glauber's salt 100 lbs. 1.00 — 1.15 Sulphide, 60-65p.c. crystlb0434— .0534	*Toluol, pure	Carmine No. 40
60 p.cper 100 lbs. 3.85 - 4.00	m-Toluylenediamine	Gambier, see tanning.
Sulphide, 60-65p.c. crystlb0434— .0554 60 p.c per 100 lbs. 3.85 — 4.00 lphur (crude) f.o.b. N.Y. ton 45.00 —50.00 f. o. b. Baltimore ton 45.00 —50.00	Xylene, puregal. 1.00 — 1.25 Xylene, Comgal35 — .40	Indigo, Bengallb. 2.50 — Oudeslb. 2.75 —
iphuric Acid	Xylolgal3550	Guatemala
60 deg. Pyriteton Nominal 66 deg. Brimstoneton 41.00 -42.00	Acid Black	Kurnahs
Oleumton 75.00 —90.00	Acid Blue	Madras
Oleumton 75.00 —90.00 Battery Acid, car'sper 100lbs. 3.00 — 3.50	Acid Brown	Nutgalls, blue Aleppolb
Nominal.	Acid Orange	
yestuffs, Tanning Materials	Acid Orange II	Persian Berrieslb Quercitron Bark, see tanning.
and Accessories	Acid Red	Sumac, see tanning. Turmeric, Madras
	Acid Scarlet	Aleppey
COAL-TAR CRUDES AND	Alizarin Blue	Pubnalb081/2-
INTERMEDIATES	Alizarin Blue	China
id Benzoic	Alizarin Brown, conc	Barwoodlb
id Hlb. 2.25 — 2.75	Alizarin Orange	Camwood, chips
id Metanilic	Alpine Red	Chine
Xenned	Azo Vellow 1h 200 - 350	Hypernic, chips
id Naphthylamine sulphate	Azo Yellow, green shadelb. 3.50 - 4.00	
Refined	Azo Yellow, red shade	Quercitron, see tanning. Red Saunders, chipslb15 - EXTRACTS
Amidophenol Base	Bismarck Brown Y1b90 - 1.10	EXTRACTS
ninoazobenzene	Bismarck Brown F	Archil double
niline Oil, drums extralb27 — .28 niline Saltslb33 — .35	Bismarck Brown 3R1b. 2.25 - 3.25	Triplelb18 -
iline for redlb. 1.10 - 1.15	Bismarck Brown R1b. 1.10 - 1.50	Cutch, Mangrove, see tanning.
nthracene (80 p.c.)lb. Nominal thraquinonelb. 3.80 - 5.00	Bright Red	Cutch, Mangrove, see tanning. Rangoon, boxes lb. 18 - Liquid lb. 099/- Tablet lb. 111/- Cudbear, French lb. 70
nzaldehydeb. 4.50 — 5.50	Chrome Red	Liquid
nzidine Baselb. 1.80 — 1.85 nzidine Sulphatelb. 1.30 — 1.50	Crysamine Yellowlb. 1.70 - 2.00 Chrysoidine Rlb. 1.00 - 1.50	Cudbear, French
nzoate of Soda	Chrysoidine Ylb90 - 1.00	English
nzol, C. Pgal3537	Congo Red	Flavine
nzylchloride	Direct Black	Fusticlblb
	Direct Blue	Hematine Extract
amedophenol	Direct Brown	Crystals
Dianisidinelb	Direct Bordeaux	Indigo, natural for cottonlb50 -
chlorbenzol	Direct Red	For wool
Dichlorbenzol	Direct Red lb. 2.10 -2.50 Direct Yellow lb. 1.75 -2.25 Direct Fast Yellow lb. 3.00 -4.00 Direct Violet lb. 3.00 -4.50 Past Red, 6B extra, con'tlb. 4.60 -5.00	Logwood, solidlb19 -
	Direct Violet	Crystals
nitrobenzollb3335	Fast Red, 6B extra, con'tlb. 4.60 - 5.00	Contract
Dinitrobenzene	Fast Scarlet, contract	Osage Orange— Powderedlb. — —
nitronaphthalenelb4475	T extra, contract b. 2.00 - 3.05 Fast Scarlet, contract b. 2.75 - 3.25 Fur Black, extra b. 2.50 - 3.00 Fur Brown B b. 200 - 3.10 Fur Brown GG b. 2.50 - 4.00	Powdered
nitrophenol	Fur Brown GG	Quebracho, see tanning.
phenylamine	Fuchsine Crystals	Quercitronlb07 -
oxynaphthalenelb	Indigo 20 p.c. pastelb. 1.00—13.00	MISCELLANEOUS DYESTUF
dulinelb. 2.00 - 2.25	Indigotine, conc	AND ACCESSORIES
ethylanthraquinonelb	Indigotine, pastelb. 1.50 - 2.50 Indulinelb. 1.10 - 1.75	Albumen, Egg
noethylaniline	Magenta	Albumen, Egg
phthalene, flake	Metanil Yellow	Procession Place
phinalehediamine	Methylene Blue, tech	Soluble
Vaphthol, Technical 1b 65 - 2.10	Methyl Violet 1h 2 25 275	Turkey Red Oil
Naphthel lb. 1.75 - 2.10 Naphthel	Naphthol Green	Solutie
Naphthylaminelb62 — .65	Naphthol Green bb 3.00 - 3.75 Nigrosine, Oil Sol. bb 85 - 1.25 Nigrosine, spts. sol. bb .75 - 1.25 Nigrosine water sol., bluelb .75 - 1.05	Algarobillaton140.00 15
Nitraniline	Jet	Divi Divi
trobenzene	Naphthylamine Redlb. 6.50 - 7.00 Oil Blacklb85 - 1.25	Mangrove, African, 38 p.cton 60.00 -6
tronaphthalene	Oil Black	Bark, S. A ton 45.00 -5
tronaphthalene 1b. 44 - 65 vitrotoluol 1b. 150 - 1.75 vitrotoluol 1b. 55 - 65 vitrotoluol 1b. 75 - 85 vitrotoluol 1b. 75 - 85 vitrotoluol 1b. 15 - 125	Oil Scarlet 15 200 250	Oak Barkton 15.00 -1
Vitrotoluol	Oil Yellow lb. 1.80 - 2.50 Orange, R. G., contract lb. 2.00 - 2.25 Orange Y, conc lb. 1.10 - 1.50	Ground
	Orange Y, conc	No. 2
Phenylenediamine		
enol 15 55 57	Ponceaulb. 1.75 — 2.50	Sumac, Sicily, 27 p.c. tanton 94.00 -9
Phenylenediamine lb. 1.15 - 1.25 enol lb. .55 - 57 Phenylenediamine lb. 3.50 - 4.50 thalic Anhydride lb. 4.75 - 5.75 eudo-Cumol lb. - - Neminal - - -	Ponceau 1b. 1.75 -2.50	No. 2 ton 20.00 - 2 Sumac, Sicily, 27 p.c. tan ton 94.00 - 9 Virginia, 25 p.c. tan ton 50.00 - 9 Valonia Cups ton Beard ton Wattle Bark ten 62.00 - 6

ages

- 1.00
- 2.00
- 2.00
- 2.05
- 2.75
- 3.25
- 2.59
- 2.59
- 2.60
- 1.85
- 2.60
- 1.400
- 14.00
- 14.00
- 14.00
- 14.00
- 14.00
- 14.00
- 14.00
- 14.00
- 14.00
- 14.00
- 14.00
- 14.00
- 14.00
- 14.00
- 14.00
- 14.00
- 14.00
- 14.00
- 14.00
- 14.00
- 14.00
- 14.00
- 14.00
- 14.00
- 14.00
- 14.00
- 14.00
- 15.00
- 2.75
- 3.10
- 3.10
- 1.50
- 2.75
- 3.10
- 1.50
- 2.75

.20 0.00 .05 .10 0.00 .031/4

.17 .17 .20 .26

riginal Packages

	eavy Chemicals and Dyes	- Oliginai Fa
TANNING EXTRACTS Chestnut, ordinary, 25 p.c. tan,	WHERE TO BUY	DEXTRINES AND ST
bbls	WOOLWORTH BLDG BARCLAY-6005-6 STARCHES DEXTRINES ALBUMEN	Potato Dextrine white or canary lb. Corn Dextrine white or yellow, spot lb. Buffalo Corn Starch lb. Globe Pearl Starch lb.
Larch, 25 p.c. tan lb03033 Crystals, 50 p.c. tan lb0607 Mangrove, 55 p.c. tan lb0812 Liquid, 25 p.c. tan lb0608 Muskegon, 23-30 p.c. tan.	*Palm Lagos, caskslb32 — .33 *Beninlb30 — .31	Globe British Gumlb. *REFINED SUG. (Prices in Barrel
30 p.c. total solids	Faim Refrief, domestic 1b. -	Amer.Na: Powdered
treated	*Rapeseed, ref'd. bbls gal. — 175 Blown gal. 1.75 — 1.85	Standard Gran
35 p.c. tan, bleaching b	Second gal. 42 - 45 *Sesame, domestic gal. 2.50 - 2.75 *Imported gal *Soya Bean, Manchurian lb. 184 183	ANIMAL AND FISH "Menhaden, crude,f.o.b.mills.gal. Light, strained gal
Oils	MINERAL MINERAL	Light, strained gal. Yellow, bleached gal. Wh':e, bleached, winter. gal. Neatsfoot, 20 deg. gal. 30 deg., cold test gal. 40 deg., cold test gal.
ANIMAL AND FISH (Carloads) Cod Newfoundlandgal. 1.07 - 1.09 *Domestic, primegal. 1.00 - 1.02 Liver, Newfoundlandbbl. 90.00 - 95.00	Black, reduced, 29 gravity 25-30 cold test	Dark
*Degras, Americanlb2325 *Englishlb2426 Germanlb	Dark steam, refined gal26 — .30 Neutral, W. Va. 29 grav. gal264—.27	Stearic, single pressedlb. Double pressedlb. VEGETABLE OII
Neutral .lb. - - Horse lb. .17 .17½ Lard, prime winter gal. 2.30 -2.35 Off prime gal. 1.85 -1 90 Extra, No. 1 gal. 1.50 - 1.55 No. 1 gal. 1.45 - 1.50	White 30@31 gravity gal 33 — 34 Paraffin, high viscosity gal 29½ 30 903@865 sp. gr. gal 18½ 22 Red Paraffin gal 18 — 19	*Castor, No 1, bblslb No. 3
Menhaden, Light, strained gal. 1.05 — 1.07 Yellow, bleachedgal. 1.07 — 1.09		Tankslb. *Corn, crude, bblslb. Refined, barrelslb. 2 *Cottonseed, crude, f. o. b. mills
*Southern crude fo h plant gal os	Miscellaneous	1b.
30 deg., cold test. gal. 2.85 2.95 3.05 40 deg., cold test. gal. 2.85 2.95 40 deg., cold test. gal. 2.75 2.85 Dark gal. 1.75 1.80 Prime gal. 2.00 2.25 Oleo Oil lb 22 24 Porpoise, body gal. 80 85 Jaw gal. 24,00 25,00 Red, (Crude Oleic Acid) lb 17 17/4 Saponified 17/4 17/4 Saponified 17/4 17/4 Saponified 18/4 18/4 Saponified 18/4 Saponified	Carloads Spirits Turpentine in bbls.gal. 4747½ Wood Turpentine, steam distilled, bbls	
See 1112	Diamond "I"	Peanut, edible
*Prime 921 155 160	Fine Orange ib. 6570 Second Orange ib. 6165 T. N ib. 5960 Button ib. 5960 Button ib54 Bone, dry ib64 OIL CAKE AND MEAL Cottonseed Cake fo.b. Texas33.50	GREASES, LARDS, TAI (New York Markets)
Castor, No. 1 bbls. lb. — 30 Cases lb. 31 No. 3 lb. 28½ 29½ accoanut, Ceylon, bbls. lb. 18% 18½ *Ceylon, Tanks lb. 18 18 Cochin, bbls. lb. 19½ 19½ Tooks 10 19½ 19½	f. o. b. New Orleans — — — — — — — — — — — — — — — — — — —	White, grease, stearine lb, Lard, City lb, Compound lb, Stearine, lard lb, Oleo lb, Tallow, edible lb, City Fancy lb, Choice Country lb,
Cottonseed, Crude, f. o. b. mills	Linseed Mealshort ton 57 00 -58 00 SALT PRODUCTS Salt, fine280 lb. bbls 2.65 200 lb. sacks - 1.75 Turk's Island- Coarse140 lb. bags - 1.13 Mineral140 lb. bags - 1.13	Tallow, edible
*Winter, vellow lb = 2216	brineisi	
*Winter, yellowlb. —	Mineral 140 lb. bags - 1.13 COCOA Bahia lb. 10 11 Caracas lb. 124 13 Hayri lb. 09 0914 Maracaibo lb. 20 22 Trinidad lb. 124 13	Note

	DEXTRINES AND STARCHES
	Imported Potato Starch Duty Paidlb12121/2
•	Domestic Potato Starchlb12
	Corn Dextrine white or
	yellow, spot
	Globe Pearl Starch
	Globe British Gumlb0634 *REFINED SUGAR
•	(Prices in Barrels)
	Ar- Fed. War- Amer.Nat.bu'le eral ner Powdered
	Powdered
	Confectioners A7.35 7.35 — 7.35 7.35
	Confectioners A7.35 7.35 — 7.35 7.35 Standard Gran7.50 7.50 7.50 7.50 7.50 * Prices fixed by Government.
1	Soap Makers' Materials
	ANIMAL AND FISH OILS *Menhaden, crude,f.o.b.mills.gal
1	*Menhaden, crude,f.o.b.mills.gal. — 95 Light, strained gal. 1.05 - 1.07 Yellow, bleached gal. 1.07 - 1.09 White, bleached, winter gal. 1.09 - 1.11 Neatsfoot, 20 deg. gal. 2.90 - 3.05 30 deg., cold test gal. 2.85 - 2.95 40 deg., cold test gal. 2.75 - 2.85 Dark gal. 1.75 - 1.80 Prime gal. 2.00 - 2.25 Red, (Crude oleic acid) 1b. 17 - 1.74 Saponified 1b 1.74 Stearic, single pressed 1b. 23 - 234 Double pressed 1b. 24 - 244 VEGETABLE OUTS
1	White, bleached, wintergal. 1.09 - 1.11 Neatsfoot, 20 deggal. 2.90 - 3.05
1	30 deg., cold testgal. 2.85 — 2.95
	40 deg., cold testgal. 2.75 - 2.85 Darkgal. 1.75 - 1.80 Primegal. 2.00 - 2.25 Red. (Crude oleic acid)lb17174 Saparifed
1	Red, (Crude oleic acid)lb17 — .17½ Saponifiedlb. — — .17½
	Stearic, single pressedlb. 23 - 23½ Double pressedlb. 24 - 24½
	VEGETABLE OILS
1	*Castor, No 1, bbls.
	Coccanut, Ceylon, bblslb183/6 .183/6
	*Ceylon, tankslb18 Cochin bblslb193/8193/2
	Tanks
	Corn, crude, bblslb18½lb. 22.32 —22.52 Cottonseed, crude, f. o. b. mills
	1b - 19
	Summer Yellow, primelb. 2122 *White gal
1	*Winter, Yellowgal. — — .22¼ Linseed, raw, car lotsgal. 1.30 — 1.32
*	inseed, raw, car lotsgal. 1.30 — 1.32 5 barrel lotsgal. 1.31 — 1.33 Olive, denaturedgal. 3.00 — 3.10
	*Footslb38/
	Palm Lagos, caskslb32 — .33 *Nigerlb29 — .30
I	Palm Kernel, domesticlb
F	†Crude f. o. b. millsgal 1.40 Pine, white steamgal
S	Palm Kernel, domesticlb
	GREASES, LARDS, TALLOWS (New York Markets)
G	rease, white
	Yellow
	rease, white lb18 — .19 Yellow lb16 — .164 House lb16 — .164 Brown lb154 — .16 White, grease, stearine lb164 — .17 White, grease, stearine lb18 — .1814 ard. City 254
L	White, grease, stearinelb18 — .181/4 ard, Citylb. — — .253/4
S	tearine, lard
T	Oleo
	Choice Country
Т	allow, edible

Imports and Exports of Drugs and Chemicals, Dyestuffs, Etc.

ROOTS-

Imports from Feb. 8 to Feb. 16, 1918-Exports for month of December

Owing to the strict regulations of the Treasury Department forbidding the publication of the names of importers receiving consignments and the names of ports of shipment, this feature of the service is omitted by DRUG AND CHEMICAL MARKETS during the period of the war. Subscribers interested in any special product will be assisted in locating supplies if they will communicate with the Editor.

Imports

ALBUMEN-11,500 pounds 25,000 pounds 25,000 pounds
BALSAMS—
5,000 pounds copaiba
BEANS—
33,673 pounds vanilla
2,600 pounds vanilla
2,600 pounds vanilla
2,600 pounds vanilla
185,600 pounds
185,600 pounds
185,600 pounds
185,600 pounds
185,000 pounds
185,000 pounds
185,000 pounds
1,000 pounds
2,300 pounds cinnamon
25,300 pounds citronella
26,100 pounds citronella
26,100 pounds various
9,900 pounds various
9,900 pounds pounds
1,700 BALSAMS 9,900 pounds pepperm
GALL NUTS—
34,500 pounds
80,200 pounds
GELATIN—
153,339 pounds
GUMS—
77,230 pounds chicle
IODINE—
1.000 pounds resublim IODINE—
1,000 pounds resublimed
LEECHES—
350 pounds bloodsuckers
MAGNESIUM CARBONATE— MAGNESIUM CARBONATE—
5,000 pounds
MEDICINAL & MISCELLANEOUS DRUG
PREPARATIONS—
600 pounds drugs
NUX VOMICA—
29,700 pounds
OILS—
29,873 pounds fusel
656 gallons edible olive
7,793 gallons peanut
10,000 gallons herring
450 pounds lemon grass
500 pounds lemon grass
500 pounds lemon grass
500 pounds soya bean
PEPSIN—
900 pounds PEPSIN—
900 pounds
POTASSIUM IODIDE—
300 pounds
POTASSIUM PERMANGANATE— 400 pounds POTASSIUM CARBONATE— 600 pounds POTASSIUM SALTS— 400 pounds, various 39,639 pounds, various QUEBRACHO EXTRACT—

136 pounds ginger
2,300 pounds jalap
SALTPETER—
180,200 pounds
SEED—
67.871 pounds flax
13,050 pounds flax
13,050 pounds flax
13,050 pounds cardamoms
3,960 pounds cardamoms
17,500 pounds cardamoms
17,500 pounds cardamoms
8,575 pounds castor
4,800 pounds castor
110,250 pounds rapeseed
SPICES—
40,000 pounds cinnamon
10,000 pounds cinnamon
40,000 pounds cinnamon
10,150 pounds cinnamon
10,150 pounds cinnamon
128,900 pounds
TARTAR, CRUDE—
126,300 pounds
73,850 pounds
WAX—
6,872 pounds bees
53,460 pounds carnauba
38,800 pounds carnauba
49,700 pounds carnauba
49,700 pounds carnauba
49,700 pounds vegetable
19,000 pounds vegetable
19,000 pounds vegetable
19,000 pounds
1,034,176 pounds
1,034,176 pounds

Exports

ACID, CARBOLIC—
424 pounds, Brazil
ACID, NITRIC—
110 pounds, Mexico
117 pounds, Brazil
5,780 pounds, British South Africa
ACID, SULPHURIC—
480 pounds, Brazil
5,780 pounds, British South Africa
ACID, SULPHURIC—
480 pounds, Hayti
339 pounds, San Domingo
220 pounds, Argentina
110 pounds, Brazil
128,000 pounds, British Guiana
BEES WAX—
1,156 pounds, Cuba
96 pounds, Brazil
CALCIUM CARBIDE—
662 pounds, British South Africa
130 pounds, Australia
2,750 pounds, Dutch
130 pounds, Australia
2,750 pounds, Dutch
100,000 pounds, Argentina
COPPER SULPHATE—
260 pounds, Dutch East Indies
200 pounds, Dutch East Indies
200 pounds, Uruguese
200 pounds, Uruguay
2,000 pounds, Argentina
CORN STARCH—
132,835 pounds, British South Africa
240,800 pounds, Scotland
FLAX SEED—
933 bushels, England
62 bushels, Brazil
6 bushels, Brazil
1,029,000 pounds, France

GLYCERIN—
50 pounds, British Guiana
50 pounds, Para
LIME CHLORIDE—
57,365 pounds, Brazil
480 pounds, Chile
870 pounds, Dutch East Indies MERCURY— 50 pounds, Argentina 60 pounds, Colombia MERCURY—
50 pounds, Argentina
60 pounds, Colombia
PARAFFINE, CRUDE—
1.430,758 pounds, England
554,847 pounds, Chile
400,000 pounds, Hongkong
PARAFFINE, REFINED—
1.600 pounds, San Domingo
204 827 pounds, Cuba
5,000 pounds, Jamaica
80,400 pounds, Mexico
179,675 pounds, Scotland
330,833 pounds, Mexico
179,675 pounds, Serizerland
216,429 pounds, France
PARAFFIN, REFINED—
37,148 pounds, Peru
39,433 pounds, Peru
39,433 pounds, Parzil
7,695 pounds, Cuba
4,093 pounds, Mexico
PARAFFINE OIL—
2,500 gallons, Chile
PEPPERMINT OIL—
5 pounds, Chile
PEPPERMINT OIL—
5 pounds, Chile
PEPPERMINT OIL—
5 pounds, Chile
PI pounds, Argentina
2 pounds, Chile
71 pounds, Argentina
2 pounds, Canada
4,500 pounds, France
11 pounds, Jamaica
472 pounds, Canada
4,500 pounds, France
11 pounds, Chaba
SODA, ASH—
90,686 pounds, Dutch East Indies
49,000 pounds, Venezuela
SODA, CAUSTIC—
22,000 pounds, Venezuela
SODA, CAUSTIC—
22,000 pounds, Argentina
SODA, SAL—
22,500 pounds, Cuba
SODA, SAL—
22,500 pounds, Cuba
SODA, SAL—
22,500 pounds, Cuba
23,500 pounds, Cuba
23,500 pounds, Cuba 118,000 pounds, Argentina
SODA, SAL—
22,500 pounds, Cuba
315 pounds, British West Indies
SODIUM SILICATE—
7,139 pounds, Peru
9,600 pounds, Venezuela
SULPHUR, CRUDE—
110 tons, Mexico
8 tons, Trinidad
25 tons, Cuba
8 tons, Brazil
GLUCOSB—
133,270 pounds, British South Africa
100 pounds, British Guiana
332 pounds, San Domingo
SPONGES— 392 pounds, San Domingo
SPONGES—
24 pounds, Peru
1,333 pounds, Chile
108 pounds, Chile
108 pounds, Chile
108 pounds, San Domingo
10 pounds, Sarail
24 pounds, San Domingo
10 pounds, Salvador
ZINC OXIDE—
10,568 pounds, Dutch East Indies
250 pounds, Venezuela
4,240 pounds, Peru
4,500 pounds, Colorado
11,100 pounds, Chile
2,020 pounds, Argentina
470,500 pounds, England
616 pounds, England
616 pounds, Mexico
4,645 pounds, Cuba

THE PROPOSED GERMAN BOYCOTT

The proposal of the Chamber of Commerce of the United States, submitted in a referendum to its members to establish a trade boycott on Germany after the war, was vigorously dissented to in the ballot of the National Association of Manufacturers which was transmitted to Washington last week.

The question was discussed by the Merchants Association of New York, and by the Manufacturers' Council of the New Jersey State Chamber of Commerce, and by the Jersey City Chamber of Commerce,

and by the New York Chamber of Commerce. Announcement of the result of the referendum will be made from Washington in a short time.

A bill to prohibit importation of German articles of trade was introduced in the House by Representative Kelly, of Michigan. The period of prohibition is fixed at one year for every week that a state of war exists between the United States and Germany after the passage of the bill. Importation of any German article is made a felony punishable by a \$5,000 fine and not more than two years in prison or both.

1918

tc.

"American Extra Pure"

ZINC DUST

Produced at Our Zinc Smelters Langeloth, Pa., and Bartlesville, Okla.

Especially adapted for use in Textile Dyeing Manufacture of Dyes

The American Metal Company

61 Broadway New York

Want Ads

RATE-Our charge for these WANT ADS in this publication, all classifications, is \$1.00 an issue for 20 words or less; additional words, 5c each.

PAYMENT in all cases should accompany the order; add 10c if answers are to be forwarded.

Address, DRUG AND CHEMICAL MARKETS

No. 3 Park Place

EMPLOYEES FURNISHED. Stores sold—also furnished; All States. Positions. Doctors, Dentists, Veterinarians furnished. F. V. KNIEST, Omaha, Neb., Estab. 1904

Marden, Orth & Hastings Corp.

Established 1837)

HEAVY CHEMICALS INTERMEDIATES ANILINE DYES DYEWOOD EXTRACTS

61 Broadway, New York

Phone: 7012 Rector

Chicago

Cleveland

Seattle San Francisco

MANUFACTURERS

Chlorate of Potash Yellow and Red Phosphorus

Crude Iodine Carbonate of Potash

Bicarbonate of Potash Iodine of Potash Resublimed Iodine Muriate of Potash

and other Chemicals

INQUIRIES ARE SOLICITED

S. SUZUKI & CO. Ltd. Established Tokio, Japan

15-21 Park Row. NEW YORK CITY. Telephone Barclay 8257

THE ERA KEY

TO THE

U. S. P. and the N. F.

This new edition contains information regarding all drugs, chemicals and preparations in the new Ninth Edition of the U. S. Pharmacopoeia and the new Fourth Edition of the National Formulary.

All arranged in one, alphabetical order, with the

essential information needed for prescribing and dis-

pensing these official products.

In full cloth, 191 pages, price 50 cents, postpaid.

D. O. HAYNES & CO., Publishers

No. 3 Park Place

New York City

Drug & Chemical Notes

The Steinen Dyeing Company, 417 West Twenty-fourth street, New York, has increased its capital from \$10,000 to \$25,000.

Charles Pfizer & Co., 11 Bartlett Street, Brooklyn, N. Y., have awarded a contract for alterations in their chemical works on Gerry Street, to cost \$15,000.

The Direct Sales Company, 436-38 Pratt street, Buffalo, N. Y., manufacturer of drugs, etc., is planning for extensions in its plant to cost about \$12,000.

The Verona Chemical Company, Newark, N. J., has filed plans for the construction of a one-story extension to its works at Verona and Riverside avenues.

The Kolx Co. of Delaware has appointed S. G. King, 1328 Broadway, New York, as their representative. This company was recently incorporated with a capital of \$300,000 to manufacture drugs and chemicals.

San Francisco reports the arrival of a steamer from Batavia with 265 cases of quinine, 834 packages bark, 850 packages gambier, 175 potash, 600 coca leaves.

The Imperial Chemical Manufacturing Company, 135 West Twenty-third street, New York, has leased property at 382 Lafayette street for a new establishment.

Bick & Undy, Philadelphia, chemicals and dyestuffs, have removed their offices from 119 North Front Street to the Drexel Building, to provide for increasing business.

C. G. Weiscopf, of the Charlotte Drug Co., was elected secretary-treasurer of the Michigan State Association of Ginseng Growers at the recent meeting at Grand Rapids.

The American Chemical Products Company, a Delaware corporation, has filed authorization papers to operate in New York. G. B. McLeod, 23 Liberty street, is local representative.

The Nitrogenous Chemical Company, Philadelphia, is having plans prepared for a one-story brick and concrete addition to its plant at Thirty-seventh street and Tasker avenue.

The New Jersey Legislature has passed a bill introduced by Senator McGlennon, providing that members of the Board of Pharmacy are prohibited from acting as teachers in a college of pharmacy

The United States Industrial Alcohol Company, Baltimore, Md., is planning for the construction of a two-story addition to its chemical works at Curtis Bay, to cost about \$100,000.

The Crescent Color & Chemical Works, Eleventh avenue and Fifty-ninth street, New York, have filed authorization papers to operate in New Jersey. James Murray, West Front Street, Plainfield, will act as local representative.

The Benzol Products Company, Marcus Hook, Pa, is having plans prepared for two one-story extensions. The buildings will each be one-story, about 47×120 feet, and 39×39 feet, the latter structure to be known as Still House, No. 2.

The Worthen & Aldrich Company, Delawanna, N. J., operating a dye works, is taking bids up to Feb. 22, for the construction of an addition to its four-story reinforced-concrete plant, 80 x 160 feet. Estimated cost, \$250,000.

The Noequa Chemical Company, Philadelphia, has been incorporated in Delaware with a capital of \$450,000 to manufacture chemicals, etc. F. R. Hansell, Philadelphia; S. C. Seymour, and J. V. Pimm, Camden, N. J., are the incorporators.

The Leicester & Continental Mills, Philadephia, have sold their properties consisting of mills, dye works, boiler plant, and other structures at 48-50 Armet Stree, Germantown, to Palliser Crabtree, for a consideration of \$160,000. The new owner acquires all machinery and equipment, and, it is said, will operate the plant as heretofore.

The formal transfer of the plan of Harrison's, Inc., Philadelphia, Pa., manufacturer of chemicals, etc., to E. I. duPont deNemours & Co., Wilmington, Del., has been effected by the recording of necessary deed. The plant consists of five large manufacturing buildings and auxiliary structures; the consideration for the property is \$400,000.

It is reported that the Chilian Government has sold to the United States \$25,000,000 worth of nitrate which was destined for Germany at the outbreak of the war, according to Juan Antonio Menchaca, Consul General for Spain at Lima, Peru. The German authorities purchased the nitrate from Sloman & Gildemeister, a Lima firm. The Germans, however, had no means of getting the supply to their munition plants after British and French war vessels had swept their commerce from the seas and the Chilian Government took over the consignment.

Manufactured by

THE BUTTERWORTH JUDSON CORP.

WORKS

Newark, N. J. Baltimore, Md.

VICTORIA BLUE B
VICTORIA BLUE BASE

CRYSTAL VIOLET

CHROME BROWN

Phosgene Gas Dinitrobenzol Picramic Acid

Michlers Ketone Benzyl Chloride Salicylic Acid

Benzidin Sulphate and Base, Etc.

Manufactured by

THE ATLAS POWDER CO.
NITRITE OF SODA

SOLE DISTRIBUTORS

FRANK HEMINGWAY, Inc.

115 Broadway, New York

LAKE COLORS ANILINE COLORS
OILS AND GREASES
PHARMACEUTICALS
ACIDS

18

J., for in-ost,

er ia;

ler n-00. ıd,

I. en nt li-is

to as at te is, ii-pt nt